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HEMIST and DRUGGIST JULY 31, 1943

The
CHEMIST AND DRUGGIST
for RETAILER - WHOLESALER - MANUFACTURER

blished 1859 28 Essex Street, Strand, London, W.C.2 Registered as a Newspaper

3312
CXL JULY 31, 1943 Annual Subscription (with Diary) 25/-. Single Copies 9d.

Title page of first edition of "Gerrard's Herbal," 1597. (The Chemist & Druggist, June 24th, 1922.)

In the time of "GERRARD'S HERBAL" physicians were compelled to employ empirical and drastic remedies. To-day humanity demands reliability guaranteed by science. For over 60 years Lilly laboratories have contributed to this advance in medicine by producing ethical products of research for prescription use.

Lilly
TRADE MARK

ELI LILLY AND COMPANY LIMITED
BASINGSTOKE, HANTS

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TRADE **Vaseline** MARK

BRAND

PREPARATIONS

AND

PINEOLEUM BRAND PRODUCTS

CHESEBROUGH MANUFACTURING COMPANY LTD.

VICTORIA ROAD, WILLESDEN, N.W.10

Sole Distributors for THE PINEOLEUM COMPANY

The Chesebrough Manufacturing Co., Ltd., wish to advise the retail trade that the following sizes of "Vaseline" white and yellow Petroleum Jelly and "Vaseline" brand preparations are obtainable through the wholesale sundriesmen.

	Pre Tax Retail Price	Suggested Retail Price with P. Tax
"Vaseline" Blue Seal Yellow Petroleum Jelly. No. 1 size	4½d.	5d.
"Vaseline" Yellow Petroleum Jelly		
No. 2 size tins	3d.	3½d.
1-lb. tin, round Professional Use Only, see ★ FOOTNOTE		
7-lb. tins, square	For Dispensing	
"Vaseline" White Petroleum Jelly		
No. 1 tins	3½d.	4d.
No. 1 size, bottles	6d.	7d.
1-lb. tins, round Professional Use Only, see ★ FOOTNOTE		
7-lb. tins, square	For Dispensing	
"Vaseline" Veterinary Petroleum Jelly		
2-lb. tins, round	2/3	2/6½
7-lb. tins, square	7/–	—
***"Vaseline" Mentholated Petroleum Jelly.** Tubes	1/–	1/1½
***"Vaseline" Capsicum Petroleum Jelly.** Tubes and Bottles	1/–	1/1½
***"Vaseline" Carbolated Petroleum Jelly.** Tubes and Bottles	1/–	1/1½
***"Vaseline" Camphor Ice**	6d.	10d.
"Vaseline" Soapless Shampoo	4d.	5d.
"Vaseline" Hair Tonic. *Very limited due to Prohibition*		
No. 1 size	1/6	2/7½

* PATA

★ **IMPORTANT.** The 1-lb. tins of "Vaseline" Petroleum Jelly, both yellow and white, above quoted, must not be offered for sale to the public, as under the Control of Packaging (No. 1) Order, 1942, this size tin must be sold only to Hospitals, Clinics, Doctors, and allied medical professions.

C.F. LINE

Pineoleum Brand Nebulizer Outfit Plain and with Ephedrine		
Outfit, complete with inhalant, in carton.	5/–	5/7½
Pineoleum Brand Inhalant		
100 c.c. bottle, in carton. Plain and with Ephedrine	5/–	5/7½
15 c.c. bottle with dropper. Plain and with Ephedrine	1/6	1/8½
Pineoleum Brand Ephedrine Jelly		
Collapsible tubes with applicator	1/3	1/5

NOTE.—To conform with Government regulations, it may be necessary for us, in the future, to revise our packings and prices.

"IT'S DOGGED AS DOES IT"

—Anthony Trollope.

In August, 1939 the management f J. W Simpson. (Chemist) Ltd. was hanged. And the question of future ading policy had to be settled.

On what basis ?

On this basis: to give the retail hemist thoroughly sound products hich his customers wanted, a good argin for his service and to support m to the fullest extent, treating m as a business partner—which deed he is. The results of that olicy, pursued persistently and with ogged determination, are winning rdial recognition from pharmacists erywhere. They see three things:—

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First, Simpson products *are* therautically sound. They are well anufactured, live up to the claims ade for them and meet the present eds of the public. Secondly, Simpson oducts *are* profitable to handle. ey yield just on 40% on best rms. Thirdly, Simpson products e supported by well-conceived and nservative advertising.

More than that. Chemists are mind- of the fact that Simpson's have en supporters of the C. F. Scheme *ce its inception.* They also know at Simpson's are at the back of their rchasing in that, if they overbuy, y end-of-season surplus is readily exchanged. Business, after all, is not an exact science. It is mostly common sense, fair play and hard work.

Your business partner.

In your area there is a Simpson traveller, a man of integrity whom you know as a trusted friend. He is your business partner to advise and help you get the most out of Simpson activities. He has never let you down and will not do so now. Your man is in this list:—

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WEST MIDLANDS: Mr. T. J. Dare.

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LONDON AND SOUTH-EASTERN COUNTIES: Mr. W. A. Castle.

N. IRELAND: Mr. J. W. Martin.

These men represent a firm whose declared policy is to give you a thoroughly straightforward deal—in all respects. We attach high value to your goodwill and we shall be meticulously careful to preserve it.

Announcement by J. W. Simpson (Chemist) Ltd. Iodine House, Museum Street, London, W.C.1.

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New Standard Bonus Parcels

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Owing to supply difficulties the "25 capsules" pack has been entirely discontinued but the "100 capsules" pack is again available. The "oil" packs remain as formerly.

We must RESERVE THE RIGHT to restrict the number of parcels supplied to any one establishment and thereby, as far as possible, ensure fair distribution.

TERMS OF SUPPLY:

1 *Bonus in kind will be allowed only when one or more standard parcels G, H, J, K, L, M are ordered.*

2 *The order must be accompanied by cash. No pro-forma invoices can be issued.*

3 *Orders for broken parcels or unaccompanied by cash will not be entitled to bonus in kind.*

4 *Bonus in kind cannot be allowed on any other Halibut Oil Products.*

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	Bonus	Sell	£ s. d.
PARCEL G = 1 DOZEN			
12 x 15 c.c. 5/- Drops	1	5/-	3 0 0
Less 25%			15 0
			2 5 0
„ 10%			4 6
*Amount of cash with order			*£2 0 6
PARCEL H = 3 DOZEN			
36 x 5 c.c. 2/- Drops	3	2/-	3 12 0
Less 25%			18 0
			2 14 0
„ 10%			5 5
*Amount of cash with order			*£2 8 7
PARCEL J = 1 DOZEN			
12 x 30 c.c. 9/- Drops	1	9/-	5 8 0
Less 25%			1 7 0
			4 1 0
„ 10%			8 1
*Amount of cash with order			*£3 12 11
PARCEL K = 6 DOZEN			
72 x 5 c.c, 2/- Drops	12	2/-	7 4 0
Less 25%			1 16 0
			5 8 0
„ 10%			10 10
*Amount of cash with order			*£4 17 2
PARCEL L = 1 DOZEN			
12 x 100 Capsules	1	8/6	5 2 0
Less 25%			1 5 6
			3 16 6
„ 10%			7 8
*Amount of cash with order			*£3 8 10
PARCEL M = 3 DOZEN			
36 x 100 Capsules	3	8/6	15 6 0
Less 25%			3 16 6
			11 9 6
„ 10%			1 3 0
*Amount of cash with order			*£10 6 6

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3 doz. Medicinal Paraffin, 8 oz. (for medicinal use only)
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,, Calomel
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3 doz. Glauber Salts, 4 oz.
3 doz. Sod. Bicarb., 4 oz.
3 doz. Flowers Sulphur, 2 oz.

3 doz. Wintergreen Ointment, tins
3 doz. Vapour Rub, jars or tins

Ointments, medium tins:—
3 doz. Boric
3 doz. Zinc
3 doz. Sulphur
3 doz. Basilicon

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1 gross Antiseptic Healing Cream, large tins
1 gross Bronchial and Cough Mixture, 4 oz. (per doz. 7/-)
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Quality
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The growing public demand for SOFTEX Toilet Tissues proves that there is a widespread appreciation of a *quality* toilet roll.
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BRITISH MADE

NO HIGHER IN PRICE THAN NONDESCRIPT MAKES

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'DIMPLES'
FEEDING BOTTLE
8 OZ. SIZE

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COMPLETE WITH TEAT AND VALVE

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(2

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With Guaranteed Complement of Vitamins A, B, C & D.

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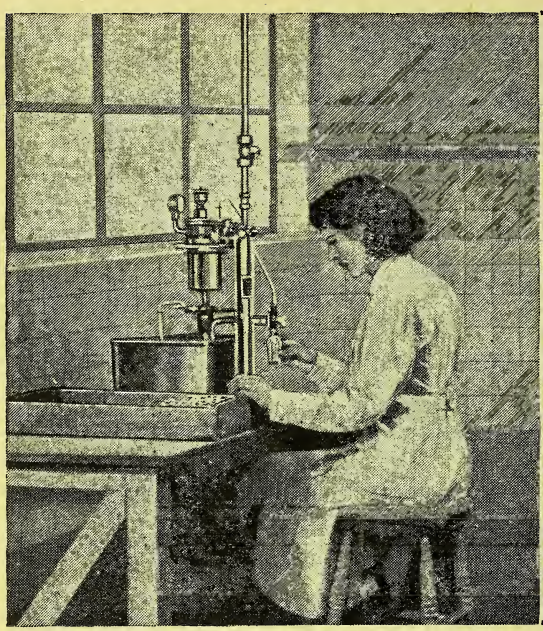

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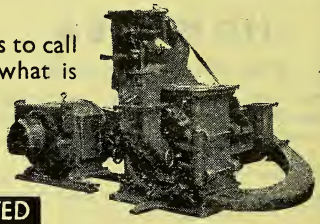

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MORE LIDS RINGS LABELS
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"OLEV" actually **Kills** the Moths and Moth Grubs.

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One whiff of FLYFLASH and any insect is as dead as a doornail. The season for starting an offensive against household pests is now on. Do your customers —and yourself—a good turn by recommending FLYFLASH, the lightning Killer for quick sales and repeats.
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How many people are dyeing for a change?

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THEY'RE WANTED NOW! Big demand is further stimulated by ads. now appearing in newspapers and by bright packing and good display. 15 shades and black, selling in 3d. packets, with instructions included, and Shade Card for Dealer.

TERMS:
27/- gross
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Send order now to **S. TATLOW & CO., LTD.**
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FAMO MALT MILK

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Medium Shade only, **28/4** per doz.

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Available in all popular sizes:

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PHOSPHORUS RAT POISON

Kills Rats, Mice, Moles, Beetles, Cockroaches, etc.

2 oz. Jars (Retail 10½d.) - 7/- doz

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Sodium
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The outstanding value of SODIUM CELLULOSATE lies in the fact that it can be used in practically every industry where THICKENING, EMULSIFYING, DEMULCENT, GLOSSING and STARCHING AGENTS are required.

SODIUM CELLULOSATE is a viscous, almost water-white liquid, and is stable over a moderate *p*H range; its nature makes it particularly suitable in Pharmacy in compounding many items, such as cough mixtures, laxatives, oil emulsions, etc.

In the toilet and cosmetic industries SODIUM CELLULOSATE can be used with great advantage in the manufacture of shaving creams, sunburn lotions, hand lotions, creams, tooth-pastes, hair-fixatives, etc.

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SODIUM CELLULOSATE does not itself ferment and is resistant to fungal and bacterial growths.

Samples and information will be furnished promptly.

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SOLVENT DIVISION
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Good! it's MASON'S
EXTRACT OF HER
The CHEMISTS' FAVOURITE for over 75 YEARS
A 9d. bottle makes 6 gallons delicious sparkling Mason's He Beer. GOOD PROFITS—QUICK SA
Write for Trade Terms
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Tastefully finished Black and Red, at 24/– pe gross—Reductions for quantities. Special shad to suit customers' own requirements for quanti orders. Sample free on application. **Ashley Weeks, Ltd.** (Dept. D), 165a–165b Mitcham Rd **Tooting, S.W.17.** Tels: Str 2196—5355.

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SAN TOWELS
EDOSAN LTD., 14/16 PEEL ROAD, LONDON,

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reat News! Extraordinary Gazette! Second Edition!" *THE NEWS-CRIER or HORNMAN*

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ONDON AND *MANCHESTER*

BEECHAMS PILLS

Profits again Higher

FURTHER EXPANSION

The annual general meeting of Beecham's Pills, Ltd., was held on July 22, 1943, at the May Fair Hotel, London, W.

Mr. Philip E. Hill, the chairman, in the course of his speech, said:—

Ladies and gentlemen, I am glad to be able to meet you at the commencement of the second centenary of your business with a successful year's trading to report. For the eleventh successive year your directors are able to report increased profits, this year's trading profits being £94,119 up at £1,269,334.

This year our accounts are in a slightly different form, to comply with the requirements of the paper control.

From a perusal of the accounts it will be seen that we made a profit of £51,512 on the sale of investments of which your directors considered it prudent to dispose in view of the favourable prices obtainable. The profit on these transactions has been added to the carry-forward. The year has not been an easy one, as the raw material position has been more difficult than last year, and quotas and other restrictions have militated against sales expansion. However, I am glad to say that in spite of these facts, sales of the group's products were substantially in excess of those for the previous year.

Our new subsidiary companies, which were acquired in continuation of the board's policy of extending the business of the group beyond proprietary medicines, have all done well and have contributed satisfactory dividends. Your directors are satisfied with these acquisitions.

Our export trade has suffered somewhat severely from increased Dominion and foreign taxation and from the stringent shipping restrictions. I am glad to say, however, that we have held our own in the major markets, and are ready to follow our policy of expansion as soon as times are favourable. New lines have been put on the markets, and their successful exploitation is only a matter of time.

Your directors felt justified this year in slightly increasing the dividend on the Deferred shares, which I hope meets with your approval.

Once again the company has contributed a large proportion of its revenue to the national exchequer, as apart from purchase tax, nearly one and a half million pounds has been or will be paid to the Chancellor in taxation.

Our staffs have been still further depleted by the calls of the Services and munitions.

It is impossible for me to prophesy what the next year's results are likely to be, but I am glad to be able to tell you that, so far, sales show an increase over last year.

The Chairman concluded by moving the adoption of the report and accounts, which was seconded by Mr. J. Stanley Holmes, M.P., managing director, and carried unanimously.

A hearty vote of thanks to the chairman, directors and staff concluded the proceedings.

BICKIEPEGS
INTRODUCE
TODDLERS CRUSTS
—small hard baked rusks which compel mas tion, prevent crowded teeth and are nutritious. Suitable for children from six mo of age. **One 1/- packet— One P**
BICKIEPEGS—used in the Royal Nurse tough little biscuit bones for babies when teet begins. They promote easy teething and com baby. **Four 7d. pkts. or two 1/1 pkt One Point**
CHU-CHUS—hard, nourishing rusks to en babies to continue the biting exercise. **One pkt.— One P**
NIBBLESTICKS—hard biscuit sticks. T soothe the nerves and prevent crowded te For all ages. **Four 6d. pkts.— One P**
BICKIEPEG REAL VEAL BONE A VEGETABLE BROTH.—For babies from b and nursing mothers. **2/3 per jar.**
No Points IN SHORT SUP
FORTIGEN—a tonic (cereal food) taken milk or sprinkled over any food. Needs cooking. **Retail 1/6 per carton.**
No Points IN SHORT SUP
Note: Bickiepegs, Chu-Chus, Toddl Crusts and Nibblesticks are unsweeten Orders may be mixed.
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Minor household injuries deserve prompt attention *and 'Tannafax' is a most effective dressing for the little burns, scalds* *and scratches that are among the everyday hazards of the kitchen. It is clean and easy* *to apply, gives quick relief from pain, protects the injury and helps to bring about rapid healing.*

Next time you are asked for "something to put on a burn" recommend 'Tannafax.'

'TANNAFAX' BRAND

TANNIC ACID JELLY

for burns, scalds, abrasions

Collapsible tubes of ¾ oz. 9d. Purchase Tax 1d.
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(The Wellcome Foundation Ltd.)
LONDON

(T.22) P.A.T.A.

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TRADE MARK
ESTABLISHED 1794

SQUIBB
"QUINOLOR"
Trade Mark Brand
Compound Ointment
Tissue-repair promoting Antiseptic
An ointment of proved value in staphylococcal infection, particularly good results are to be obtained in sycosis barbae, sycosis vulgaris and tinea sycosis. "Quinolor" possesses noteworthy qualities for promoting tissue repair and affords an excellent dressing for cutaneous affections and superficial lesions. 1-oz. & 16-oz. jars.

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Reliable hypnotic and sedative.

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Carbaminoylcholine Chloride
Powerful parasympathetic stimulant.

"Dr. JENNER'S
ABSORBENT LOZENGES"
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Famous for 150 years for indigestion.

"MEDILAX"
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Laxative Pellets
Something more persuasive.

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An advance in coal tar therapy.

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"STERULES"
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Selected preparations for injection.

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FOR THE TREATMENT OF
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SUPPRESSION OF LACTATION
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NEWS OF THE WEEK

Business Reply and Parcel Services.—a war-time economy measure the siness reply and postage forward (parcel) vices are to be suspended from August 1. 1 and from that date the postage must fully prepaid. Any business reply cards envelopes which may be posted unpaid er July 31 will be liable to be surcharged double rate.

Proposed Senter Memorial.—Dr. George nter, Ph.C., whose death occurred in rch 1942, was Principal of Birkbeck llege from 1918–39. It is proposed to mmemorate his work, and it is felt that worthier tribute to his memory could adopted than to found in the new llege buildings a laboratory for the rpose of research in physical chemistry. was to this branch of knowledge that made many notable contributions. . Senter left the College a benefaction £1,000, and during his lifetime he conbuted a sum of £450 to the fund for the w buildings. The Governors think there could be no better means of employing this money than by using it as the nucleus of a fund wherewith to build a worthy tribute to one who, while a devoted servant of science, was also unstinting in his labours for the College. Donations for this purpose should be made payable to Birkbeck College, and sent to Mr. H. Gordon Jackson, Acting Master, Birkbeck College, University of London, E.C.4.

Ointment Regulations Considered Too Stringent.—The Peterborough Branch of the Pharmaceutical Society and the local Chemists' Association passed a resolution at a meeting held on July 20 stigmatising the new regulations regarding ointment bases as too stringent, and urging that freedom should be given to the individual to dispose of existing stocks without fear of prosecution. The meeting agreed that it is necessary to conserve fats, but considered that the embargo should be placed on the manufacture of new stocks and not on the use of stocks held at pharmacies.

Pharmaceutical Corps.—A series of lectures on first aid for members of the South-east Metropolitan Branch will commence at St. John's Hospital, Lewisham, London, S.E., on August 10. The class will commence at 7.45 p.m. and will consist of a lecture followed by practical work. Members desiring further information should telephone the branch secretary (TID 3019).

Derbyshire Call-up Protest.—Complaint that the County Pharmaceutical War Committee had not been treated fairly by the Central Committee in the matter of the deferment of call-up of chemists and dispensers was made at a meeting of the Derbyshire Insurance Committee recently, when it was stated that the number of chemists in the county had been reduced to 134, or one to every 4,750 of the population. This compared unfavourably with the general average for the whole country.

Coventry Committee's Attitude to Call-up.—Coventry Insurance Committee is concerned as to the position that will arise if the proposal of the Central Pharmaceutical War Committee to call up twenty more chemists from the city is pressed. Already four large chemists' shops have had to close owing to staff difficulties and it is anticipated that the new proposal will cause ten more to follow suit, with serious effect upon dispensing and pharmaceutical work. The Central Committee selected thirteen names out of twenty required, and requested the Coventry Committee to select the other seven, but the local committee has declined to accede to the request.

Newcastle Chemists' Debate.—Whether the Association of Pharmaceutical Employees or a "craft" union is the better for pharmacy and the individual was the subject of a debate held by the Newcastle Branch of the Pharmaceutical Society on July 8. Mr. W. R. Webster, supported by Mr. J. Ridley, opened for A.P.E. and said its policy was professional, industrial, and political. Miss K. Bell, supported by Miss K. M. Atkins, put forward arguments against the A.P.E. and advocated a "craft" union within the framework of the Society itself, for here was a Union with 100 per cent. membership and a basic structure ready to build upon. Moreover, the Society could speak for every member, not just one particular section. Among those who took part in a lively discussion were Messrs. Atkins, Dagg, Duncan, Fleming, Jackson, Lawson, Lonsdale, Lowe and Weddell. At the conclusion of the debate a vote was taken, "A Craft Union" winning by four votes.

Eire Examination Results.—The follo candidates were successful in the Licence examination of the Pharmaceu Society of Ireland: Francis Rouse (Honours); Annie Clarke, John Ar Cotter, Brendan Creedon, Patrick Enr Cornelius Henry Foley, Bridget Chri Gorman, Thomas Andrew Hoolahan, Patrick McCluskey, Ellen McConn, Don Gerard O'Dea, John Joseph O'Gor Cornelius Joseph O'Leary, Nora T O'Shea, Catherine Spillane, Daniel Fr Ward, Patrick John Anthony Ward. Th seven candidates sat. Three of the suc ful candidates (Messrs. Patrick Enr Cornelius Foley, and Patrick J. A. W are sons of pharmaceutical chemists.

Irish Drug Association.—A comp report on meetings of the committee o Irish Drug Association held during the three months under the chairmanshi Mr. F. X. Meagher (president of the Ass tion), records that Mr. William Ha Limerick, has been co-opted a membe the committee. Notification was rece from the tooth-paste manufacturers they would distribute a window bill t trade drawing the public's attention to necessity of salvaging scrap lead and en cream and tooth-paste tubes. Compla it was reported, had been received country members about the action of wholesale trade in refusing to pay car on returned empties, and the committ in communication with representative the wholesale trade on the subject. committee sent a protest to the Irish U of Distributive Workers and Clerks aga the Union's action in appointing two tors for Union members wishing to rec medical treatment under a health sch The ground of the objection was the tention that the doctors concerned doing their own dispensing. A letter received from the selling agents for proprietary preparation Argotone, sta that this preparation would be distrib only through qualified chemists. In r to numerous queries received, mem have been advised that they are at pre entitled to 100 per cent. of their pre sugar ration for medicinal manufactu and dispensing purposes. Any men not receiving this quantity from his u supplier should apply direct to the Dep ment of Supplies. The committee annou its regret that it is unable to inform mem when supplies of scarce drugs or prop aries become available. Retailers, it st must rely on the wholesalers for equit distribution.

ARMACEUTICAL SOCIETY OF GREAT BRITAIN

ETING of the Council of the Pharma-cal Society of Great Britain was held Bloomsbury Square, London, W.C., uly 28, the president (Mr. W. S. lls) in the chair. MR. G. R. KNOX ER moved that a letter of congratula-e sent to Mr. Robert Griffiths Edwards, tly Lord Mayor of Manchester, on the ion of the conferment of the honorary e of M.A. at Manchester University. was agreed to. THE SECRETARY ted that fifteen persons had been ered as apprentices or students; there ten persons to be restored to the ter whose names were removed during ous years, and the Council agreed to estoration. MR. W. DEACON said that Var Aid Fund had been satisfactorily asing. MR. H. C. SHAW pointed out in view of the increase in building s the insurance of the building had increased to secure fire cover for ooo. MR. KNOX MAWER, speaking on minutes of the Benevolent Fund nittee, said it would be a very nice n on their part to send congratulations e orphan son of a pharmacist who had sent to a school at Watford by the , and had there secured a free admis-o Christ's College. This was agreed to. *this juncture the Press were requested ve the meeting and were informed that ement would be issued later. No indica-as given as to the nature of the business discussed at the private session.*

Examination Results

following candidates in England and satisfied the examiners in the Chemist Druggist Qualifying examination held ly:—

ead, William, Blackburn
strong, Margaret, Millington
ton, Gwenyth M., Plymouth
bridge, Bryan, Kendall
er, Sylvia G., Bristol
mer, Joan, Long Eaton
th, Eric O., Stoke-on-Trent
den, Jack, Farnworth
nick, Emma F. M., Torquay
gh, Clarence W., Sheffield
h, Emily, Melton Mowbray
ies, Norman B., Old Colwyn
ar, Kenneth, Battersea
ling, Doris E., Fulham
, Eric, Alderley Edge
cott, C. H. G., Basingstoke
tt, Ernest R., Burton
den, Ronald, Blackburn
dhouse, F. G., Birmingham
Fuller-Rowell, L. J., Histon
Gilbert, Horace J., Atherstone
Gilbert, Robert B., Carlton
Godwin, Leslie J., Southampton
Green, Barbara M., Sutton Coldfield
Hale, Marjorie, Surbiton
Hetherington, R. L., Bristol
Hewitt, John, Stockport
Humphreys, Gaynor, Llanelly
Hunt, Alan M., Plymouth
Jackson, Betty, Sheffield
Jones, Desmond E., West Bridgford
Krebs, Max, Manchester
Leakey, Michael G., Taunton
Leaver, Ernest R., Blackpool
Leonard, Frank, Grimsby
Lewis, Wyndham H., Garnant
Littlewood, Albert, Derby
Lord, Frank F., Nottingham
Luscombe, P. G., Newton Abbot
Hughes, R. M., Upton St. Leonards
Martin, Barbara, Birmingham
Martin, B. S. A., Thetford
Martin, Freda, Linthorpe
Milne, Margaret J., Budleigh-Salterton
Moon, Derrick, Devonport
Morris, Joan M., Stoneygate
Neil, Sheila P., Nottingham
Nolan, Herbert McD., Stoke-on-Trent
Osman, Richard W., Southampton
Peatfield, Lawrence J., Newark
Peet, Gilbert, Grantham
Perks, Donald H., Walsall
Pomeroy, William R., Rhondda
Prime, T. H. H., Littleover
Prince, Cleter N. S., Bath
Roper, Barbara M., Dunmow
Rothwell, Roy, Leigh
Rowe, George E. F., Beeston
Salmon, Shirley, Dewsbury
Saunders, Jeanne E., Grantham
Seaton, Albert, Lambley
Setlers, Doris, Chorley
Sengupta, Arun K., Manchester
Sheridan, Cyril H., Golders Green
Smallpiece, Kenneth F., Ripley
Smith, Frank, Blackpool
Snowden, Priscilla, Flamborough
Tatford, Eileen P., Brighton
Thomas, David Edward, Swansea
Thomas, Vernon Lloyd, Swansea
Thompson, Jack, Sheffield
Todd, Oliver Rowland, Bury St. Edmunds
Welman, Barbara L., Sawbridgeworth
Western, William H., Cullompton
Williams, Kenneth A., Tiverton
Williams, Winifred, Manchester
Wills, Harold, Hebden Bridge
Wilson, Florence, Blackburn
Wright, William Dennis, Hyde

NORTH LONDON EMPLOYEES.—A meeting of employees will be held at Manor House Hotel, Finsbury Park, London, at 7.15 p.m. on Friday, July 30, to discuss the formation of an employees' section of the North London Pharmaceutical Association.

TOPICAL REFLECTIONS

An Important Statement

It is to be hoped that your appreciation of the statement on the organisation of industry issued under the auspices of Nuffield College (p. 93) will induce all of your readers who are concerned with earning a living—not to mention higher purposes—to read this pamphlet. Nuffield College, though it disclaims any responsibility for the contents of this statement beyond that of having convened representatives of various interests, has already justified the foresight of its founder, and promises to become a steadying influence of a kind we looked for in vain at the close of the last war. The committee whose "general sense" has thus been recorded numbered thirty-three; such well-known names as those of Sir Cyril Norwood and Dr. A. D. Lindsay on the academic side are balanced by those of industrial leaders like Lord Melchett and Mr. S. Courtauld. The signatories frankly acknowledge the limitations of their scope—for instance, the exclusion of international relations except for an occasional and incidental reference; but they put forward their agreed conclusions as an honest attempt to face issues too often evaded, and "to talk practical sense rather than hot air." The limitations referred to are, for present purposes, unimportant. In a report comprising 119 sections the committee submits its views in clear-cut phrases without lapsing into dogmatism or attempting to evolve a hard and fast scheme. One advantage of this economy of words is that more questions arise in the mind of the reader than are answered in the pamphlet, a result, no doubt, in accordance with the authors' wishes. In illustration I select a topic with which pharmacists and members of associated trades are familiar, price control.

A Tripartite Control

The kind of control well established in these trades is shared between manufacturer, wholesaler and retailer; each has his agreed obligation and his agreed margin of profit. A fourth person, the customer, becomes an associated party in the control, though without any similar obligation, from the moment that he places an order for any article covered by it. In an attentive reading of the pamphlet I have not been able to gather that the authors are familiar with this safeguard against cut-throat competition, though what they write on price control is perfectly sound. The Industrial Tribunals mentioned would, it is propo supervise (if that is not too compreher a word) the activities of Industrial Bo and of trade in general, and would ac ministers with a view to correcting deficiencies found; but they "could possibly deal with allegations of u pricing by wholesalers or retailers of standardised goods, or with the host prices charged in individual transactio every sort and kind." What, then, is true function of an Industrial Tribun this kind, and eventually of the Stat directing price control? Surely not to under the prompting of some preconce theory of the public interest, with an the four parties mentioned and against or all of the others, for all are citizens are entitled to impartial justice. being so, one is impelled to ask whethe a matter of this kind, the protectio the courts of law is not already suffic I see no escape from the conclusion there would be a danger in setting tribunals with powers parallel and equ those of the courts: tribunals' decis should in every case be subject to ap by process of law.

Problems to be Solved

Summarising a few impressions of valuable statement, I may note the esse fairness of the authors' outlook. rightly insist that confidence is "at root of the matter." They believe "the methods of administration devel by Government departments, for the poses of law-enforcement and p administration which have been principal concern, are unsuitable for conduct of industry and incompatible efficiency or flexibility in its working." higher status for management is sugge with increased responsibility for direc More uniformity in costing system desired. Codes of conduct for trade u will be demanded. (The word "ethics not mentioned in this connexion.) U parliamentary interference is ruled Distribution may have to be rationali the country "may not be able to aff some expensive forms of advertising display. Further research on indus problems is asked for. Finally, it is that the problems here discussed "mus solved somehow—and that with spee disaster is not to encompass the Br people after the war has been won." expression of view is timely. **Xrayse**

LEGAL REPORTS

harmacy Act Prosecution.—At Chertsey, rey, Police Court, recently, Mrs. E. A. ver, Oak Parade, Walton-on-Thames, fined £5 for the unauthorised sale of a on; £5 for selling a poison not labelled the prescribed manner; and £2 for ling as a chemist when not registered. pleaded not guilty. Prosecuting for Pharmaceutical Society, Mr. C. Morgan lained that defendant was the widow of gistered pharmacist, who died in 1939. continued to conduct the business as executrix, with the assistance of a lified pharmacist, until early in 1941. . Bower then decided to carry on as rug store. If she had done so it would e been quite all right, provided she oved all the poisons and certain titles n the premises. Despite four warnings, failed to comply with the regulations.

urchase Tax Offence.—At Manchester Police Court, on July 20, Hough, eason & Co., Ltd., manufacturing mists, Pendleton, were charged with king a false statement in respect of chase tax returns. Mr. Rawlins, proting for the Board of Customs and ise, said the company registered as manuuring chemists in October 1940, and up to then confined themselves to rmaceutical products. In April 1941, et preparations and cosmetics being hort supply, they began to manufacture n and to supply them to retail chemists. offence was spread over a period of e months. Toilet preparations were ject to a tax of 33⅓ per cent. while licinal products were chargeable at per cent. The tax paid by the company a little over £1,000, whereas it should e been double that amount. Mr. Percy lin, defending, said the offence had n due to lack of supervision owing to the culties under which the company had n working. There had been no wilful mpt to evade the tax. The balance of oo had actually been paid to the horities. Fines amounting to £450 e imposed.

Waste of Food Order.—At Dartmouth ice Court, on July 20, Mrs. Elizabeth M. de, Wadebridge, was summoned under Waste of Food Order with the unlawful ste of five bottles containing cod liver oil, e-hip syrup, and other children's food. s. Patricia P. Sugden, of the same adss, was similarly summoned in respect of bottle of cod liver oil. According to police evidence, at a house where defendants had resided there had been found in a pail in a shed, among other bottles and articles, the six bottles of children's food which comprised the charge. They were cod liver oil, rose-hip syrup, petroleum emulsion, etc. The constable handed them to the food authorities. They were examined by Mr. C. Geddes, M.P.S., Paignton, who pronounced the contents fit for human consumption. Both defendants made a statement in which they said the compounds were old and not fit for babies to use. The bottles were placed out for salvage. Mrs. Slade admitted to the constable that the rose-hip syrup must have been placed out for salvage in error. Mr. J. H. Barns, M.P.S., Dartmouth, who was called for the defence, said that some of the compounds were not fit for use. The rose-hip syrup seemed old. One bottle of cod liver oil seemed all right. Mrs. Slade was fined £20 and Mrs. Sugden £10.

COMPANY NEWS

Meyrick & Davies, Ltd. (P.C.).—Capital £1,500. Wholesale, retail and manufacturing chemists, dealers in toilet preparations, photographic dealers, etc. Gilbert H. Goodwin, M.P.S., and Violet M. Goodwin, directors. R.O.: Marina, Bexhill-on-Sea.

George Higgins & Co., Ltd. (P.C.).—Capital £5,000. Wholesale and retail pharmaceutical and analytical chemists, manufacturers of and dealers in proprietary and other preparations, etc. Frank W. Powley, director. R.O.: 30 Meredith Street, Clerkenwell, London, E.C.1.

Simmette, Ltd. (P.C.).—Capital £2,500. To acquire the business of a bath cube, washing powder and toilet requisite manufacturer carried on by Frederick H. Simmons at 13 Whitehouse Street, Bedminster, Bristol. Frederick H., Alan C., and Trevor S. Simmons, directors. R.O.: Atlas Buildings, 9 Clare Street, Bristol.

Sangers, Ltd.—Final dividend, 17½ per cent., making total for the year of 22½ per cent., against 20 per cent. in the previous year.

Deleted from Register.—"The London Gazette," July 13, notifies that Drakes' Pharmacies, Ltd., Tiffin's Dentabath, Ltd., and Tudor Laboratories, Ltd., have been struck off the Register of Companies.

TRADE NOTES

Coty Deodorant.—Frescol deodorant, a new speciality introduced by Coty (England), Ltd., 41 High Street, Leighton Buzzard, Beds, is now available at prices listed on another page.

Looped Sanitary Towels.—Waveley (Products), Ltd., West Street, Southport, Lancs, are offering Sanesse sanitary towels, size 2, looped, made from white wool and gauze. Details of packings and prices are given elsewhere in this issue.

Price Corrections.—Lofthouse & Saltmer, Ltd., Hull, point out that the prices of their halibut liver oil and malt extract are 21s. 3d. per doz. for the 1-lb. and 40s. 6d. for the 2-lb. jars, and not as given in their advertisement in the July 24 issue of the *C. & D.*

Insect Killer.—S. Maw, Son & Sons, Ltd., Aldersgate House, Old Cromer Road, New Barnet, Herts have introduced Flyflash, one whiff of which, they claim, brings instant death to flies, wasps, moths, mosquitoes, fleas, beetles, lice, or bugs.

Insulin Price Reduction.—Reduced prices for all packings of insulin are announced by the British insulin manufacturers (Allen & Hanburys, Ltd.; Boots Pure Drug Co., Ltd.; The British Drug Houses, Ltd.; and Burroughs Wellcome & Co.). The new prices are effective from July 31. Details of the new rates and of credits on stocks are given on another page.

For Professional Use Only.—Attention is drawn by the Chesebrough Manufacturing Co., Ltd., Victoria Road, Willesden, London, N.W.10, to the fact that the 1-lb. tins of Vaseline petroleum jelly, both yellow and white, must, under the Control of Packaging (No. 1) Order, 1942, not be sold direct to the public, but must be reserved for hospitals, clinics, doctors and similar medical users.

Wax Seal for Fruit Bottling.—A new preparation, Lexil, has been put on the market by Croda, Ltd., Rawcliffe Bridge, Goole, Yorks, for use in the bottling of fruit. Officially approved and recommended by the Ministry of Food, Lexil can be used for sealing jars of fruit bottled by the oven method; fruit pulps poured by boiling into heated jars; and jams. An announcement by the makers appears in this issue.

Eucerin and the Sixth Addendum.—The unsaponifiable fraction of wool fat is now official (in the Sixth Addendum to the British Pharmacopœia) under the designation Alcoholia Lanæ (wool alcohols); it is incorporated in a paraffin base as ointment which is official under the Unguentum Alcoholium Lanæ (ointr of wool alcohols). Eucerin anhydi manufactured by Herts Pharmaceuti Ltd., Bessemer Road, Welwyn Ga City, Herts, is stated to be made hydrocarbons that are controlled to a cl specification than the hydrocarbons use the B.P. ointments. The company will market Alcoholia Lanæ (wool alcol corresponding to the commercially a able product of B.P. standard, which be available in 2-oz. circular cast discs new ointment, Eucerin hydrous, is b introduced. This will be equivalent Unguentum Aquosum of the Addendum

Holiday Closing.—Pharmaceutical Sp alities (May & Baker), Ltd., will be cl from 5.10 p.m. on July 30 until the u opening time on August 3. Emergency plies can be obtained during this period f John Bell & Croyden, 50 Wigmore Str London, W.1, or Curtis & Co., Ltd., 79 Ba Street, W.1.

Proprietary Articles Trade Associat

Additions to Protected List.—*Silten,* Silbe asthma tablets, 1s. 6d., 13s. 6d. doz., 2s. 3d. doz., inclusive retail price, 1s. 3s. 6d., 31s. 6d. doz., tax 5s. 3d. doz., i 3s. 11½d.; 10s. 6d., 94s. 6d. doz., tax 15s. doz., i.r.p. 11s. 1od.; asthma inhalant, 60s. doz., tax 10s. doz., i.r.p. 8s. 1od.

Alterations.—*Hobson, Trimble & Co.,* Hobson's Choice improved feet plaisters strapping. Purchase tax adjustment, 4 3s. 6d. doz., tax 4½d. doz., i.r.p. 5d.; 3 d 10s. 3d. doz.; 6 doz., 19s. 9d. doz.; 12 doz.,

Eli Lilly & Co., Ltd. (corrections to P.A.T Year Book, 1943). Cevalin brand vitami tablets, No. 1585, 2s. size, 16s. 9d. d Sinapsolin brand mustard and capsic compound, 1s. size, 8s. 5d. doz.; Thea brand theophylline monoethanoline Pulvu 40's, 71s. 6d. doz.

Numol, Ltd. Homocea ointment, small s 1s. 4d., 12s. doz., tax 2s. doz., i.r.p. 1s. 6d.

Pharmaceutical Specialities (May & Bak Ltd. Reduced prices, August 2, M & B. 6 25 × 0·50-gm. tablets, 3s. 6d., 28s. doz.; × 0·50-gm. tablets, 13s. 6d., 108s. doz.; × 0·50-gm. tablets, 65s. 6d., 43s. 8d. ea 25 × 0·125-gm. tablets, 2s., 16s. doz.; × 0·125-gm. tablets, 34s., 22s. 8d. each; powd containers of 15 gm., 4s., 32s. doz.; M. & 693 soluble, ampoules, boxes of 6 × 1-gm., 48s. doz.; boxes of 25 × 1-gm., 23s. 6d., 15s. each.

John Wyeth & Bro., Ltd. (corrections P.A.T.A. Year Book, 1943). Bovinine, 6- size, 34s. doz.

PARLIAMENTARY NEWS

mobilisation of Small Traders.—Mr. a Bère recently asked the Minister out Portfolio whether he would give ideration to granting one-man traders ity of demobilisation, since this would t many small traders who were atened with having to close down to tain their businesses. The Minister William Jowitt) said he could not add hing to previous statements.

lling-up of Shopkeepers.—Major Proc- sked the Minister of Labour on July 22 far it was intended still further to rce the calling-up of one-man and one- an shopkeepers. The reply was that Minister was not prepared to put any ral stop on the calling up of persons e position described, but before action taken to withdraw them from their nesses they were given an opportunity plying for their cases to be considered rounds of exceptional business hardship.

estricted Trading Hours of Shops.— ountess Davidson asked the President e Board of Trade on July 20 whether ttention had been drawn to the practice me shopkeepers, whose business was in s saleable only on the surrender oupons, in opening their premises for ed periods, and whether he would ider the possibility of refusing supplies opkeepers who did not afford adequate ities to the buying public. The reply that particular instances would be ed into.

ternational Agreements of I.C.I.— Barstow asked the President of the rd of Trade on July 21 whether Imperial nical Industries, Ltd., had informed the rnment at the beginning of the war their international agreements had declared null and void.

aptain Waterhouse: Current commer- agreements with foreigners are frustra- and illegal by the ordinary operation aw when the foreigner becomes an ny, and no formal declaration of nullity quired, but I.C.I. informed the Govern- t at the beginning of the war that their el agreements with persons who had me enemies were regarded as dissolved.

rofits on Sierra Leone Ginger.—Mr. id Adams asked the Secretary of State the Colonies on July 21 the amount of its, and how distributed, from sales Government-controlled Sierra Leone er since the introduction of control of produce.

Colonel Stanley: I have no information as to the exact profit realised by the Sierra Leone Government on the sale of ginger to the Ministry of Food in 1942, which was the first year of control, but it appears that the profit was about £14,000. The Governor intended to retain this sum for the ultimate benefit of the producers, primarily by maintaining the price to be paid in future years. During the current year the price paid to the grower has been increased to 4d. a lb. with the resulting elimination of any profit by the Sierra Leone Government. As far as I am aware it has not, therefore, been necessary so far for any expenditure to be incurred from the profits realised in 1942, but I am making inquiries.

"C. & D." QUIZ, NO. 7

1. What is carnauba wax?
2. What are ordeal beans?
3. Who devised cold cream?
4. In which pharmacopœia was ergot first official?
5. What is pipsissewa?
6. What is Dobell's solution?
7. When and by whom was the pearl coating of pills devised?
8. What founder member of the Society is commemorated by a London street?
9. Who invented the Seidlitz powder?
10. What pharmacist occupied the Chair of Experimental Philosophy at the Royal Institution?

(*Answers on p.* 127)

LIVERPOOL GOLF.—Mr. J. M. T. Reynolds, M.P.S. (territorial general manager for Boots, Ltd., and vice-chairman, Liverpool Branch of the Incorporated Sales Managers' Association), left, with the chairman of the Branch, right, at presentation of Cecil Bullen Golf Challenge Cup to Mr. H. Cranshaw, recently.

EIRE SENATE ELECTION CANDIDATES

A SPECIAL meeting of the Council of the Pharmaceutical Society of Ireland was held at 67 Lower Mount Street, Dublin, on July 19, for the purpose of formally completing the selection of candidates for the forthcoming Senate elections. Mr. John Gleeson (the president) was in the chair, and other members present were Messrs. C. J. Cremen, P. C. Cahill, T. C. Scott, F. J. Fitzpatrick, J. A. O'Rourke, H. P. Corrigan, W. C. Cunningham, P. A. Brady, and M. Costelloe.

THE PRESIDENT said that at the June meeting of the Council they had a letter before them from the Senate Returning Officer requesting them to nominate two candidates. The Council unanimously decided to select Mr. Cahill that day as their Number One candidate (*C. & D.* July 10, p. 32), but did not formally nominate him for the obvious reason that they had to select a Number Two candidate, and the selection of the second candidate was left over to the July Council meeting. They would recall that at the July meeting (*C. & D.*, July 24, p. 90) some minutes before the item of selecting candidates was reached on the agenda Mr. Cahill was called to the telephone, and the contents of the 'phone message he received were communicated to the chair. As president he asked the Council's indulgence to allow himself and the other members of the Election Committee to retire to consider the matter, as he felt the information communicated in that telephone message might have serious reactions upon the selections they were about to make. The Council granted them permission to retire and consider the matter. He might mention also that at the June meeting the Council agreed to the formation of this Election Committee, leaving the composition of the Committee in his hands. That Committee was formed and they went ahead with the issue of literature and the canvassing of chemists in the country, all of whom were exhorted to secure all the support and all the pressure they could bring to bear in furthering the candidature of Mr. Cahill. The message which they received by telephone on July 13 was that Mr. Frank Loughman, ex-T.D., a me of the Society, was prepared to go for if the Council agreed to nominate him.

Their original idea was that they w work for one candidate, as they felt could only hope to get one candidate the Senate. The proposal to nominate Loughman presented a angle which neither self, personally, nor member of the Comm could accept responsit for turning down, espec since Mr. Loughman good prospects of secu election. They were concerned with perso ities. Their whole idea to get a chemist electe the Senate. This posi accounted for the hol of the special meeting.

Mr. F. Loughman

When it was agree work for one candidate nominate two, Mr. H P. Corrigan, a membe the Council, had genero agreed to be the sec candidate. He wishec assure Mr. Corrigan that he had a in a noble and self-effacing manne agreeing to let his name go forward w out their doing any work for him merely to comply with the regulat He was quite sure every member of Council appreciated Mr. Corrigan's n gesture, and that chemists all over the co try would assess it at its true worth (h hear).

Support from Political Party

Since the last Council meeting they had a discussion with Mr. Loughman, pointed out to him the nature of the li ature already sent out asking chemists work for one candidate, and indica that a second candidate might cut ac their first selection. Mr. Loughman, h ever, assured them that he had got supp from the political party to which he longed, and that he would not cut ac the Council's first candidate. That morn he received a telegram from Mr. Loughn saying that he could secure three first pre ence votes. He had much pleasure proposing "That Patrick Columba Cal M.P.S.I., 27 Kenilworth Road, Rathg Dublin, and Frank Loughman, M.P.S 23 Gladstone Street, Clonmel, be selec

he Council as candidates for the Cultural Educational Panel in the Senate election that the Seal of the Society be affixed he necessary documents."

R. CREMEN: I have great pleasure in nding that.

R. FITZPATRICK said he was sorry on first appearance at a Council meeting r a long absence to have to strike a dis-lant note. He did not agree with what president had said, nor with the pro-ure adopted in this case. It was not in ordance with the regulations of the ety. It was illegal and irregular. There no mention of such an important ter on the June agenda. Any question orming this Committee could easily have n anticipated, because they were all ing forward to the result of the Dail tion. All this was brought about without er notice on the agenda. The Com-tee furthering this candidature issued ulars that were misleading in every il, and did not comply with the Senate tion Act or the rules and regulations of Society. An undated circular was ed which was received by members on y 1 saying that at a recent meeting of Council a candidate had been selected it was important that he should get the est possible preferences. That circular issued on behalf of Mr. Cahill only.

approval Recorded

he first moment after the Dail elec-n he had put it up to the president that Frank Loughman and Mr. Michael ourke, both men in the public eye, uld be selected to help the cause of rmacy. If it was proposed to put for-d Mr. Cahill he suggested that Mr. Cahill uld get the support, as he did before, of the ious independents, farmers and mem-s of Clann na Talmhan, and that the er men could use their influence with dominant party in the State. Mr. ghman had been a member of the Dail the last five years. They had wasted six il weeks in not giving Mr. Loughman an ortunity of going forward, and his ng forward would have helped Mr. ill. He would prefer to have been in position of proposing Mr. Cahill and Mr. ghman, but he thought the only alter-ive was to disapprove of what had hap-ed up to date by voting against both didates. He had already explained his ition to Mr. Loughman. He hoped both didates would be successful but his iscience would not allow him to stand er what had been already done. He wanted to be recorded that day as voting against the motion and his vote recorded in the minutes.

THE PRESIDENT said that with regard to Mr. Fitzpatrick's remarks their conscience was perfectly clear. There was no mention of the selection of Senate candidates on the June agenda for the simple reason that the letter from the Returning Officer came in on the Monday before the meeting, and the agenda went out on the previous Friday. The matter came before the Council as a matter of urgency. Mr. Fitzpatrick did speak to him on the telephone not after but during the Dail elections when he (the president) pointed out that Mr. Loughman had good prospects of being returned, and that Mr. O'Rourke was running well. He suggested that as these men would be more useful in the Dail they should not consider them for the Senate. It was untrue to say, as Mr. Fitzpatrick had suggested, that they had wasted six weeks. They had been working since that time in the best interests of pharmacy.

MR. FITZPATRICK said that was a matter of opinion. He had his own ideas as to what was best for pharmacy.

MR. O'ROURKE said his brother would not go forward for the Senate because he thought it was better for a man to go through the Dail and looked on it as the proper school. His brother was not interested in the Senate. He (speaker) did not agree with Mr. Fitzpatrick at all that they had done anything illegal.

MR. FITZPATRICK: The expenditure was illegal.

MR. O'ROURKE: We were quite in order in everything we did.

The Voting

When the motion was put by THE PRESIDENT to the meeting MR. FITZPATRICK asked that a vote be taken. On a division all the members of the Council present, with the exception of Mr. Fitzpatrick, voted for the motion, Mr. Fitzpatrick voting against. The vote was eight for and one against.

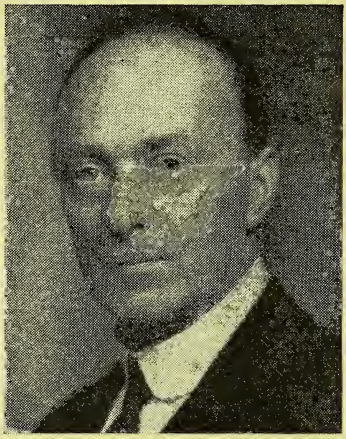
THE PRESIDENT declared the motion carried and the nomination papers of Mr. Cahill and Mr. Loughman were then completed and sealed.

Reviving Carbon Papers.—By passing carbon papers over a steam pipe (or a kettle of boiling water) with the uncoated side next the steam, the composition on the papers melts instantaneously and respreads itself evenly. The carbons dry quickly and look almost as good as new.

RESEARCH: ITS NATURE, METHODS AND IMPLICATIONS

Abstract of the presidential address given by Mr. T. E. Wallis, B.Sc., Ph.C., F.I.C (chairman of the British Pharmaceutical Conference), at the annual meeting of th Conference in London on July 29.

THE primary object of the British Pharmaceutical Conference is the encouragement of research work in pharmacy itself and also in the sciences related to the practice of pharmacy. The wide range of the field thus opened up to pharmaceutical research workers was noted by Daniel Hanbury in his presidential address to the Conference at its meeting in Exeter in the year 1869, when he said, "Our art, gentlemen, is ever progressive. All science is interesting for us, since almost every scientific discovery may sooner or later, directly or indirectly, yield some result profitable to pharmacy. Let us not therefore neglect our opportunities, but identifying ourselves with the general advancement of knowledge, let us strive to improve by every means in our power that branch of the healing art which it is our province to cultivate." Some consideration of the nature, methods and implications of research may assist in the realisation of this aim. Having completed a course of study in subjects which interest them, many persons feel that they would like to contribute something to the advancement of their chosen department of knowledge. The exhaustive array of facts and theories which has been presented to them in lectures and textbooks, and the numerous ingenious processes which they have been trained to execute during the practical exercises, appear to them to have exhausted the possibilities of the subject. How to commence work and get launched upon the uncharted sea of further advance is therefore the first difficulty to be surmounted.



Mr. T. E. Wallis

Assimilation of Ideas

The long period of continued and concentrated study has put many new ideas into the student's mind and some little time is required to recover from the effects of strain and to assimilate these ideas. Eventually they become more clearly discernible and, as experience of life enlarges, new associations develop between certain of the id which have been acquired during college course.

Selection of Subject

Research aims at discovering new tr in relation both to things and to even For the realisation this aim the particu new truth that nee elucidation must be d covered, and for t purpose imagination necessary. How thoug can be focused a imagination stimulat may be learnt by noti how other resear workers, especially th of outstanding abilit have found their ide This must be done getting away from t textbooks by reading t actual accounts writt by the authors ther selves. In dealing wi a series of journals o would be well advised begin by reading artic selected from rece volumes. When abstracts only are give the original papers should be sought o and read in the journals from which t abstracts were made, and the reading these will probably suggest still furth articles and books for study. Thus the ho zon is gradually enlarged and interest increased, while notes will be made abo any subjects which are especially attractiv

This work will involve the consulting foreign journals, for some of which it i essential to possess a working knowledg of French and German. Preparation of thi type gives an insight into the literature o the science and enables one to see ho progress has been made in the past, ho the problems arose and how difficultie have been surmounted. A further helpfu method is to study the biographies of well known research workers and to learn ho their thoughts and actions were influence by their daily working life and their famil relationships. As a result of such systematic reading of literature and history, particula items in need of investigation will present

nselves and a second stage begins by entrating thought upon these individual s with a view to choosing one upon h work may be commenced. Some ties or organisations publish lists which ist of items about which information is red and of which little or nothing is at ent known. As an aid to thought, act of a person with his fellows is far e valuable than mere reading, however nsive. This contact, especially when worker is more or less isolated from rs having scientific interests, may be ht and realised, in a manner frequently nd expectation, by joining a local ary or natural history society and g an active part in their meetings and les.

s of Research

esearch is a method of inquiry and stigation having a special aim, namely, cure advance in the general knowledge subject. Inquiry is not necessarily rch: it may be simply analysis. For nple, investigation of manufactured modities with a view to producing a lar article is actually analysis, although n referred to by commercial firms as rch work. True research is concerned adventure into an unknown region, so obtain knowledge of facts or principles t present available; it therefore results nlarging the boundaries of the depart-ts of knowledge to which it is applied. earch may be of different types; it may simply descriptive of phenomena ob-ed. These phenomena may be revealed result of using chemical reagents to ate reactions of known efficacy resulting e formation of new synthetic products, hey may become evident by careful rvation and dissection, as in the macro-ical and microscopical study of vege-e and animal structures. Another and er type of research results in the lopment of new general reactions, new nods of procedure, new principles or amental ideas. The choice of a field esearch is limited by many circum-ces. First among these one may place personal characteristics, natural inter-and inclinations of the worker. Another erful influence is the nature of a on's occupation. Research is not neces-y confined to science in the narrow e of a knowledge of material things and e forces which act upon them. It also ates in the sphere of social life and tics, where very special qualities are ssary, for, as C. H. Waddington says, "Social science, in fact, is a dangerous profession, and if you are tactful enough not to offend the mighty, you are not likely to be interesting enough to cut much ice." Here again occupation is a powerful incentive. Jacob Bell observed the confusion developing in his own sphere of work, namely pharmaceutical practice, and possessed an imagination which enabled him to see clearly how conditions of trade and quality of personnel could be improved. He boldly decided to make the experiment of defining the duties of the pharmacist and of giving him a training that would justify the award of a certificate of competence. He determined to organise the trade for the performance of a function towards the public, not merely or primarily to get a living or to make money. Another social scientist who freely gave his energy to the improvement of trading conditions in pharmacy was Sir William Glyn-Jones; the direction of his researches was conditioned by the difficulties experienced in conducting a retail business in the East End of London. His imagination suggested, and his untiring energy enabled him to perfect, a plan for securing a reasonable profit for both wholesaler and retailer when handling proprietary articles.

Equipment and Environment

Equipment, including the availability of apparatus, working-place and literature, is a further important factor in deciding the choice of subject for any research worker. This is a real limiting factor and applies especially to the solitary worker, whether in a shop, hospital or small technical college. There is, however, no lack of problems, both in pharmacy and in the sciences related to it, which can be successfully solved by the use of such apparatus, materials and time as circumstances offer. Under equipment must be included the funds for the purchase of apparatus and for running expenses. A very large amount of important work has been done in the past with very little expenditure. E. H. Farr, of Uckfield, a small town in Sussex, was a pharmaceutical research worker whose name will always be honoured for work done, chiefly upon alkaloidal assays, in a retail business with the simplest equipment. Funds, in the form of grants, are provided by certain societies and organisations, but grants are usually made only to established research institutions and laboratories, so that the isolated worker is generally excluded, unless he has already established a reputation for good work. Many people

also are reluctant to ask for grants because they feel that the acceptance of such assistance would hamper their freedom of action. The training given in universities and the nature of a university education provide just the right foundation for a research worker. With the universities may be classed many of the technical institutions which give a similar type of training.

Handicaps

There is another side to the picture. Only a small proportion of research students ultimately become themselves contributors to the common stock of knowledge. Often the chief object has been to obtain a degree which has a definite and important commercial value, so that the degree tends to become an object in itself—a necessary step upon the road to advancement or to obtaining a position that will yield a reasonable living wage and scientific status. Having received the degree, such graduates are often content with the commercial advantages accruing and cease to develop research for its own sake. The necessity for obtaining higher degrees has another bad effect in that it creates difficulty in solving small problems, which may be urgently pressing but are not likely to provide a sufficiently imposing thesis to obtain the degree. Under such conditions disinterestedness and altruism are apt to disappear and the best work is not produced.

Publication of Results

Having completed a research, the work must be brought to the notice of others. The method of communication may vary according to circumstances; it may take the form of a correspondence, or the author may publish a book or pamphlet. The most usual method, at the present time, is to write an account of the work and communicate it to a group of people interested in the same subject and assembled at a meeting of a society to which they belong. Undoubtedly the reading of a written account before a society has most to recommend it, because a number of people give sympathetic attention to the exposition and are afterwards invited to offer comments, many of which may be helpful to the author. If the work commends itself to the society, funds are provided for its publication in printed form and a wide circle of scientists is made acquainted with the results, extending to workers in foreign countries. This process helps to establish the reputation of the author and may sometimes even bring him work of lucrative character. An obstacle to surmounted when publishing the work a team of investigators is the difficulty giving proper credit to the several work When this happens, some provision sho be made by the director so that individu are able to publish independently, as w as contributing to a thesis in associat with their fellows. It is more difficult th an outside observer can realise to maint an absolute honesty and adherence to tr in reporting the results of research Imagination and other subtle influen may cause quite unintentional inaccurac

Research at Teaching Institutions

The most helpful atmosphere for a resea worker is probably that produced by t environment of a teaching institution. I teachers the conduct of research work oft imposes a heavy strain when the object to produce matter suitable for publicati and calculated to occupy a useful place the literature of the subject. Such teach need to choose their subjects with spec care and must be content to work stead in spare time and in vacations over a peri of two or three years in completing any o simple research. The work should on account be hurried and, when complete, must be carefully reviewed as a whole an exacting, critical spirit before public tion. In general, it is unwise for a we occupied teacher or a business man to lo for academical recognition of his work the form of degrees, but to be happy in t knowledge that he is helping to advan his subject and bringing honour to h country. The important factor is to fi some research occupation which brin pleasure and recreative activity into his li and therefore has the nature of a hobb the sacrifice of spare time and energy w then cease to be a burden and the wo done will prove to be of lasting valu One learns to accept negative resul and to use them as sign-posts to gui thought into more successful channel Sometimes disappointment is felt becau of the tardy acceptance of results obtaine Johann Mendel published his work on th transmission of characters in inheritance 1865; the work remained unnoticed unt 1900, when it was brought to light b Bateson. Writing of Mendel, Sir J. Arth Thomson says: "Mendel must have know how big his discovery was, and the di appointment of being ignored must hav been severe. But . . . his confidence ha been thoroughly justified."

BIRTHS

ENTLEY.—At Holmleigh Nursing Home, g's Lynn, on July 18, Nora (*née* Sum- field), the wife of Frederick C. Bentley, .S., Wingfield, Kensington Road, Gay- d, King's Lynn, of a daughter.

OWNIE.—At Chalmers hospital, Banff, uly 15, Betty, the wife of James Downie, .S., 93 High Street, Strichen, of a son.

MARRIAGES

ARTER—WRIGHT.—At St. Mary's, ghton, Leicester, on July 17, Norman am Carter, M.P.S., R.A.F., 48 Etnam et, Leominster, to Elizabeth Mary ght, M.P.S., Cardross, 4 Farley Road, neygate, Leicester.

EILSON—SHIRREFFS.—At Old Aberdeen, July 12, James Neilson, M.P.S., 99 High et, Old Aberdeen, to Dorothea Shirreffs, erdeen.

PERSONALITIES

IR. C. H. WELTON, M.P.S., Coventry, has n congratulated by the Clerk to the local urance Committee on being continuously nember of the Committee since its first visional meeting in 1912.

IR. J. PINTO NASH has retired from active iness life, after forty-two years' service a representative for Parke, Davis & Co. has been popular among pharmacists medical men in the South of England, m whom he has gained much affection respect.

IR. GEORGE HOLMES, who recently com- ted fifty years' service with Robert son & Sons, Ltd., received a presenta- n from the company to mark the occasion. is the fourth member of the firm within last three or four years to complete the f-century, and all four are still active in service of the company.

ERGEANT R. M. BADDELEY, Black tch, formerly in the advertisement artment of Parke, Davis & Co., has been arded the Distinguished Conduct Medal exceptional courage at Wadi Akarit, nisia. When all his officers, and the geant-major, had been killed or wounded, geant Baddeley took charge of the com- ny and led it into action.

MR. FREDERICK E. HOPPER, son of Mr. E. Hopper, M.P.S., 97 Raby Street, wcastle-on-Tyne, has gained the degree Bachelor of Dental Surgery in the Uni- sity of Durham, with distinction in dental subjects, and is taking up an appoint- ment as house surgeon in the Royal Dental Hospital, Leicester Square, London, W.C.1. During his student career he held office as president of the University Union, presi- dent of King's College Students' Repre- sentative Council, and student-president of the British Dental Students' Association.

DEATHS

ASHWORTH.—Recently, Mr. Albert Edward Ashworth, M.P.S., 26 Caledonian Road, London, N.1. Mr. Ashworth passed the Minor examination of the Pharmaceu- tical Society in 1902.

CREPIN.—On July 22, Mr. F. W. L. Crepin, chairman and director of Crepin & Doumin, Ltd., essential oil merchants, 15 Cooper's Row, London, E.C.3, aged seventy-four.

EVANS.—On July 18, Florence Evans, J.P., the wife of Mr. G. W. Evans, M.P.S., 40 Mount Park Crescent, Ealing, London, W., and formerly of Hammersmith, aged sixty-nine.

GATES.—At 5 West Bank Quadrant, Glasgow, recently, Mr. Colvin Gates, Ph.C., aged seventy-three.

HULME.—Recently, Mr. Harold Edwin Hulme, Ph.C., Hawthorn Road, Bognor Regis, aged eighty-three.

TAYLOR.—Recently, Mr. Frederick Hayden Taylor, M.P.S., 22 Agnew Road, London, S.E.23, aged seventy-three.

TULLEY.—Recently, Mr. Frederick Rud- rum Tulley, M.P.S., Camomile Street, London, E.C.3. Mr. Tulley passed the Minor examination of the Pharmaceutical Society in 1891.

RECENT WILLS

MR. HENRY EDMUND ALLENBY, M.P.S., The Barn, Ripley, Surrey, who died on March 19, left £945, with net personalty £197.

MR. ERNEST EDWARD BOWLER, M.P.S., Bridge Street, Belper, Derbyshire, who died on January 8, left £8,644, with net person- alty £4,741.

MR. JAMES ALEXANDER LAURIE, M.P.S., 11 Homefield Road, Chiswick, London, W., who died on April 13, left £1,246, with net personalty £1,169.

MR. THOMAS SWALES, 43 Churchwood Avenue, Leeds, druggists' sundriesman, who died on January 27, left £3,190, with net personalty £2,150.

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fact that goods made of raw materials hort supply owing to war conditions are rtised in this paper or described in its orial columns should not be taken as an cation that they are necessarily available export.

Vital Researches

doubt it must appear to many young arch workers, as Mr. T. E. Wallis points in his constructive and scholarly address hairman of the British Pharmaceutical ference, 1943 (*see* p. 114), that all main nues of research have been opened up, that no new paths remain to be charted.

s Filled

he subjects of the papers read at the nce Session on July 29 are in themselves cient to refute this discouraging out- k. They serve to show not only that e are new fields to enter, but that the mulated knowledge even of familiar gs is by no means complete. Thus it come as quite a shock to many to ise that an established pharmaceutical duct like malt extract has had so little k done on it as to necessitate the mination to which it has been submitted Wokes and others (p. 124). In "Some stituents of Malt Extract" these hors give comparative analyses for amin B_1, diastatic power, protein, and ucing sugars, for close on a score of mercial and experimental samples. th such valuable data now available to it may be anticipated that some advance be made, as time goes on, towards a greater uniformity among marketed malt extracts, so far, at least, as their protein and vitamin contents and diastatic powers are concerned. Greater use, too, evidently deserves to be made of the practice of fortifying such extracts with vitamin concentrates, not merely with a view to increasing stability, but also to bring the effective dosage more into line with dietary needs. From the same laboratories comes an important contribution to the knowledge of rose-hip syrup. This establishes three facts already vaguely understood. First, rose-hip syrup gradually loses its vitamin C; secondly, an "apparent vitamin C" gives positive but misleading results from the assay of vitamin C by the dye-titration method; and thirdly, the fruits are rich in another factor, vitamin P. Both this factor and vitamin C are presented in stable form and potent degree in a dry extract of rose-hips made according to a method described by the authors. Evidently the dog-rose has a great future before it in the preventive health services.

In a phrase casually let fall by Guthrie and Brindle in the course of a paper on "The Determination of Cantharidin," there is another reinforcement of the truth of the Conference chairman's thesis. "In the course of this work," they write, "it became necessary to know the solubility of cantharidin in water." They determined this solubility, and found it to be 1 in 1050, a considerable advance on the "very slightly soluble" of the Pharmacopœia. It is worthy of note that a figure of 1 in 1100 is given in "Martindale," and this is not so very different from the factor Messrs. Guthrie and Brindle have reached. Had they any reason for doubting the existing index?

Pharmacognosy

The influence of the Conference chairman is perhaps to be seen in three papers concerned with the botany of vegetable drugs. "Cardamoms: A Study of its Sclerenchymatous Layer"; "Senna Leaflets—Their Palisade Ratio Values and Ranges"; and "The Significance of Stomatal Index as a Differential Character" are all concerned with statistical aspects of botanical characters, and are indicative of the wealth of data that is gradually being amassed to

assist the analyst, confuse the sophisticator, and make of pharmacognosy almost an exact science.

Pharmacy

Much might be written about the Science Sessions as a mirror of current social phenomena, and in any contribution on these lines the papers presented by Bullock and Lightbown, and the same authors and Macdonald on "The "Spray-drying of Pharmaceutical Products," continuing a series commenced at last year's Conference, would have to be considered.

Possibly the process used is that which gives us, under the Ministry of Food, "dehydrated" vegetables. It can hardly be doubted that more will be heard of spray-drying in the pharmaceutical world since it is capable of yielding—to quote only one example of the materials experimented upon by the authors—a boric acid readily usable in an insufflator and rapidly soluble in water. Other essentially pharmaceutical subjects dealt with are "An *In Vitro* Method for the Study of Enteric Pill Coatings," by Abbott and Allport, and "Tuberculin Protein: A Note on its Preparation from Non-synthetic Medium." The former has resulted in two coatings emerging as the most suitable and in the finding that either spherical pills or specially-shaped tablets should invariably be adopted if enteric coatings are used. The latter provides an alternative to the use of asparagine in view of the shortage of this substance.

Bacteriology

As with research in general, so with bacteriology in particular there remain plenty of subjects for research. Savage, in "The Bacteriostatic Action of Euflavine and Proflavine Dressings on Some Pathogenic Organisms in Blood," shows that adsorption by cellulose of antiseptic dyes is not to be regarded necessarily as a disadvantage. Evans and Fishburn, in "The Mechanism of the Disinfection of Bacteria by Water-soluble Bactericides," demonstrate the influence of concentration of solution on bactericidal activity.

Assay and Synthesis

The remaining papers are chemical. They include processes of assay for methylene blue (Ferrey), and mixed halides (Jones study of variations in the physical ch acters of different samples of zinc perox and their comparative therapeutic eff (Toal), an examination of the antioxid properties of propyl gallate (Boehm Williams), and a search for new analge in "Hydroindazolone Derivatives" Picard, Seymour and Dyer.

Altogether the war has done little impede the flow of pharmaceutical searches of a practical kind, and Mr. Wa is clearly justified in using his vantage po as Conference chairman to influence s dents to take up research as a career.

After Seventy-five Years

On July 31, 1868, the second Pharm Act received the Royal Assent. Chan made by the Pharmacy and Poisons of 1933 brought the number of repea sections of it up to fourteen, exactly that of the Act as passed. Those remain relate to the definition of "chemists druggists," examination, registration, Benevolent Fund, the powers of the Pr Council, the exclusion of Ireland from scope of the Act, and the short title. success of the Act for its immediate purp may be inferred from the brevity of amending enactment of the following ye No general survey of the consequences the 1868 Act can be attempted under present limitation of space. Like ma other statutes affecting pharmacy, medic and dentistry, it prescribed conditions the use of titles; and it is of interest to no in passing, that Jacob Bell's origi Pharmacy Bill of 1851 defined the te "pharmaceutical chemist" as inclusive "chemists and druggists, dispensing c mists, and every other name denoting vendor and dispenser of medicines." many of the people whose names appea on the earliest Register kept under the were unexamined, any comparison of ratio of pharmacists to population in 18 with that of, say, 1938 would be alm valueless. In 1918 (the jubilee year of Act) the total number on the two Regist was 16,560 (population, 38,360,974); 1938 the corresponding figures were 24,1 and 46,057,000, showing that during intervening twenty years qualified perso

become proportionately more numerous. s fact is relevant in discussions on the re of pharmacy. The framers of the of 1868 can hardly be blamed for ing failed to deal with the ownership pharmacies by limited companies, a blem that had not then become a "live e." The exemption of practising mists and druggists from jury service ht have been pressed for with more inacity, then and since, in spite of iffs; at least one Bill containing this nption has been drafted, but the action, ss strongly followed up, only amounts a gesture. The subsequent history of rmaceutical legislation includes one ograde step, the creation of poison nces for agricultural and horticultural poses: this has justly been described an unnecessary evil. The net result of slative changes in pharmacy during the t seventy-five years is a marked increase tatutory restrictions on retail business, le some dispensers of medicine still ain outside the scope of the Pharmacy s. An increase in benefits is not equally ious.

armacist Candidates for Eire Senate

ME confusion may be caused in the minds chemists throughout Eire by the fact t the Council of the Pharmaceutical iety at the last moment, so to speak, e nominated Mr. Frank Loughman, T.D., as their second candidate in the ate Election in addition to Mr. Cahill, tead of as at first announced a token didate for the second nomination. The lanation for this decision of the Council ery clearly given by Mr. John Gleeson e president) in his address to the special ting reported on p. 112 of this issue. Mr. ughman has served in the Dail for five rs as a member of the Government anna Fail) Party, and will go into the ate contest with strong party affiliations l support behind him. While in no way ogating from their first choice of Mr. C. Cahill as a worthy standard bearer of Society in the election, the great jority of the Council members present they could not accept responsibility for lining to nominate a candidate of such ment, and with such influential backing Mr. Loughman. While a member of Dail Mr. Loughman showed himself lous in every way to protect and further interests of his profession. As the president of the Society put it, the Council are not concerned with personalities but with the more important matter of having a chemist elected to the Senate. The Council has nominated both candidates and wishes them the best of luck. Mr. Loughman looks for his main support in the Government Party ranks. Mr. Cahill is seeking the highest preferences possible from wherever they may come. Reports received by the Election Committee in Dublin indicate that chemists are working hard canvassing in many parts of Eire. Most satisfactory reports of support have come in from Louth, Kerry, Tipperary, Kilkenny, Kildare and the Midlands. Good reports are also expected from Clare, Waterford, Wexford, Limerick County, Mayo and Sligo. Areas from which no reports have yet been received and where a special effort on the part of local chemists is desired are Leitrim, Roscommon, Monaghan, Leix-Offaly, and Cavan.

TRADE MARKS

(*From "The Trade Marks Journal," July 7*)

"DIMAL"; for chemical solvents (1). By British Industrial Solvents, Ltd., 21 St. James's Square, London, S.W.1. 622,626.

"RUSTOSIL"; for preservatives against rust (2). By B. Laporte, Ltd., Kingsway, Luton, Beds. 623,175.

"APPERTA"; for infants' and invalids' foods, and dietetic foods (5). By Ulster Canners, Ltd., 1 Hope Street, Belfast. 621,249 (Associated).

"PERMONID"; for pharmaceutical substances for human and veterinary use, infants' and invalids' foods (5). By Roche Products, Ltd., 40 Broadwater Road, Welwyn Garden City, Herts. 622,972.

"ANVIL"; for medicated iron tonic preparations (5). By Reckitt & Colman, Ltd., Kingston Works, Dansom Lane, Hull. 623,020.

The following application under Section 37 of the Trade Marks Act, 1938, has been accepted by direction of the Board of Trade under sub-paragraph (5) of paragraph 1 of the first schedule to the Act:—

Monogram "S D I" on device with words "Certification Mark"; for mineral and aerated waters and other non-alcoholic drinks; syrups and other preparations for making beverages (32). By The Soft Drinks Industry (War-time) Association, Ltd., 42 Upper Grosvenor Street, London, W.1.

(*From "The Trade Marks Journal," July 14*)

"EASTERN CHARM"; for non-medicated preparations and lotions for the hair, perfumes, brilliantines and shampoos (3). By Vine's, 222 Harrow Road, Paddington, London, W.2. B618,097.

BRITISH PHARMACEUTICAL CONFERENCE SCIENCE PAPERS

THE following are summaries of the science papers submitted at the annual meeting the British Pharmaceutical Conference on July 22:—

The Bacteriostatic Action of Euflavine and Proflavine Dressings on Some Pathogenic Organisms in Blood

By R. MAXWELL SAVAGE

THE idea that adsorption by cellulose of antiseptic dyes is a serious disadvantage is widespread, and probably results from the findings of Fleming in 1917. The pad of a first field dressing imparts such bacteriostatic properties to a medium in which it may be immersed that doubt is thrown upon the prevailing view. It was to put the theory to the test that the present experiments were made. Proflavine and euflavine gauzes (0·1 per cent.) were immersed in blood infected with *Clostridia tetani, welchii, œdematiens,* and *œdematis-maligni,* and with *Streptococcus pyogenes,* three varying proportions of gauze to blood being employed in duplicated experiments, with parallel controls. Bacteriostasis and, in many cases, bactericidal action occurr except at the extreme limits. The activ of the antiseptic was found to agree w the more favourable estimates in t literature, and it was impossible to ascri any considerable disadvantage to adso tion of the dyes on the cotton. The exi ence of adsorption dangers in extem raneously prepared dressings is recognis as a possibility, though probably remo but this is not applicable to impregnat dressings with fixed ratios of cotton antiseptic. Action differs from organis to organism, *Cl. tetani* and *S. pyoge* being the best controlled and *Cl. œdemat maligni* the worst. (From the laborato of S. Maw, Son & Sons, Ltd.)

The Qualitative Analysis of Mixed Halides

By A. J. JONES

WITHOUT pretending to offer anything new in the way of analytical reactions, the author puts forward a method of operating well-recognised reactions so that the limits are known within which reliance can be placed upon the separation involved and the analytical indications obtained. The method proposed is for the analysis of mixed halides when iodide, bromide, and chloride may occur together. It is based on one put forward earlier by Benedict and Snell, using potassium iodate as the oxidising agent, and involving: liberation of the iodine by means of iodate in acetic acid solution; removal of the iodine; liberation of bromine by nitric acid in conjunctio with potassium iodate; addition of iodi to destroy excess of iodate; further ad tion of nitric acid to destroy the remaini iodide; and boiling off the last traces iodine before testing for chloride. T lower limits of detectable quantities are s out in the paper. For general work, 1 mil N/1000 bromide or iodide and 2 mils N/1000 chloride are certainly detected routine operation. Attention is drawn by t author in his paper to departures from r actions that are usually accepted as bein of general application. (From Evans' Fi Chemical Works.)

An "In Vitro" Method for the Study of Enteric Pill Coatings

By A. H. A. ABBOTT and NOEL L. ALLPORT

So far back as 1884 Unna reported on the use of keratin as a pill coating that resists the digestive processes of the stomach but disintegrates on entry into the small intestine; since then many different enteric coatings have been proposed. Interest centres both in the composition of enteric coatings and in the methods of testing them, and the work reported by the authors has been directed to evolving a convenient and efficient means of examining samples. An important existing method consists in the use of *x*-rays. After administration of coated pills of barium sulphate and starch their passage through the gastro-intestina tract is followed by *x*-ray observations. A a means of checking the progress of experi mental work directed towards the develop ment of efficient enteric coatings, this i probably the method of choice, but its dis advantages include the need for elaborat and expensive equipment, the great vari ability in the digestive processes of indi vidual subjects, and the differences ocurring in the same person in varyin conditions.

After reviewing all available methods of ting, the authors' finding is that *in vivo* hnique is unsuitable for routine control commercial production. On account of variable factors already given, it cannot r a constant standard of reference, ile most medicaments are not opaque to ays. An attempt has therefore been de to improve the *in vitro* method, and apparatus for applying routine *in vitro* ts is described. This provides for a conuous flow of the warmed artificial digese fluids over the pills under examination. The results of *in vitro* tests applied to pills coated with numerous enteric coatings indicated that the most satisfactory were a coating containing equal parts of cetyl alcohol and shellac, and another consisting of cellulose acetate phthalate. An examination of commercial preparations has suggested to the authors that an enteric coating should be applied only to spherical pills or to specially shaped tablets. (From the pharmaceutical research department of The British Drug Houses, Ltd. Cellulose acetate phthalate provided by Kodak, Ltd.)

Cardamom: A Study of its Sclerenchymatous Layer

By J. W. Fairbairn

cardamom seeds occur separated from ir pericarps the identification of the arated seeds, either whole or in powder, problem of considerable difficulty. The a suggested itself to the author that the mber of cells per sq. mm. of the sclerenmatous layer would provide a means of pressing an integrated average of the iclinal diameters, the figures for different cies admitting of their use as specific istants. The number of cells per sq. mm. sclerenchymatous layer for Mysore damom seeds was determined, the mean three samples of seed examined being 4. The author considers that to obtain sult that shows an error of not more than 8 per cent. and usually not more than 3 per cent. of the true value, about thirty-six pieces of sclerenchymatous layer of average diameter 135μ must be used. Preliminary experiments indicate that the number of cells per sq. mm. of sclerenchymatous layer for different varieties of cardamom seeds differs sufficiently to be of diagnostic significance. The area of sclerenchymatous layer per gm. of air-dry seed has been determined for two samples of powdered Mysore cardamom, values of 29·74 and 27·40 sq. cm. per gm. being given. (From the pharmacognosy research laboratory of the College of the Pharmaceutical Society.)

Senna Leaflets—Their Palisade Ratio Values and Ranges

By E. George

e upper and lower epidermises of leaflets Indian and Arabian senna (*Cassia ustifolia*), and Egyptian (Alexandrian) na (*Cassia acutifolia*) were examined by author to determine their palisade ratios. e leaflets were cleared by boiling for ten utes in chloral hydrate solution, and face preparations of each epidermis were de by cutting sufficiently deep to show whole of the palisade layer in the tre and only the epidermal cells at the e. Critical examination of the epidermal ls near the edge of the section often shows nt circular markings due to adherent gments of palisade cells or to pressure rted by them during growth. The lisade ratio may therefore be determined n when no complete palisade cells are sent. The values obtained were tabued, and the values plotted graphically. r both *C. acutifolia* and *C. angustifolia* palisade ratio on the upper surface has value about 1·4 times greater than that the lower surface. While fragments m *C. acutifolia* lower epidermis and *angustifolia* upper epidermis were found to have the same palisade ratio value and therefore to be indistinguishable, the other two surfaces (*C. acutifolia* upper epidermis and *C. angustifolia* lower epidermis) presented such a distinct appearance that they could be readily identified. Thus, in a powder derived solely from either species of senna leaflet, about half the fragments would give a palisade ratio near 7·5, but if the powder was from *C. acutifolia* the other fragments would give a higher value, many being above 10, while from *C. angustifolia* the other fragments would give a lower value, frequently of 5 or less. In other words, the palisade ratio values are sufficiently distinct to allow the identity of a sample of powdered senna to be established. It is necessary that a sufficient number of determinations should be done to establish a mean value definitely above or definitely below 7·5, but providing the powder is from one species alone about twenty to thirty readings should suffice. If both species are present many fragments are found with individual cells giving values above 10 as well as many with values below 5.

Some Constituents of Malt Extract

By Joan G. Organ, Jeannette Duncan, M. E. Westbrook and Frank Wokes

Although malt extract has been used for many years as a readily assimilated food for children and invalids, information as to even so important an aspect as its content of vitamin B is not readily to be found. The British Pharmaceutical Codex, 1934, states that malt extract is known to be a good source of vitamin B_1, and attributes its nutritive action to the presence of carbohydrates and of the vitamin B complex.

The Extra Pharmacopœia, 1941, Vol. I, in its monograph on malt extract, omits any reference to vitamin B, but refers to its content of protein, carbohydrates, phosphates and diastase. Variations were known in the content of certain constituents, and the authors considered it probable that similar variations might occur with vitamin B. A few representative constituents were selected from a large number found in malt extract, and information was collected on the energy and body-building values as provided by carbohydrates and proteins, and on the digestive properties as given by diastase. Amongst the different vitamins of the B complex present in malt extract attention was confined to B_1, which is rather more susceptible to destruction by manufacturing processes, for a given sample of malt extract containing an average amount of vitamin B_1 may be expected to contain average amounts of the other B vitamins. The table reproduced gives the

Sample	Vitamin B_1 i.u. per 100 gm.	Diastatic power	Protein gm. per 100 gm.	Reducing sugars as maltose: gm. per 100 gm.
A (fortified)	304	511	6·83	69·0
B (fortified)	297	626	6·44	67·8
C (fortified)	247	482	5·73	68·9
D	158	1125	6·77	69·0
E	155	90	8·90	61·5
F (experimental)	142	106	9·70	67·0
G	135	700	5·54	71·1
H (fortified)	135	12	4·73	66·0
I	131	18	5·83	71·7
J	122	53	5·83	72·7
K	118	60	5·43	73·4
L	110	62	5·56	73·2
M	103	24	4·54	86·0
N	102	39	5·56	61·4
O	101	12	3·19	64·1
P (experimental)	100	10	3·52	39·8
Q	83	0	3·72	64·6
R	63	57	5·83	57·5
S	62	89	4·06	61·6

findings for the content of vitamin B_1, protein, and reducing sugar (calculated as maltose), and the diastatic power determined by the British Pharmaceuti Codex or Lintner methods in a series seventeen commercial and two experimen malt extracts prepared by twelve w known manufacturers in this country a North America. Some were obtained malt extract, others as admixtures with chemical food, etc. Correction was ma for the amount of oil or other substan added, so that the figures in the table ap to the malt extract in liquid form and comparable. They show wide variatic in protein and vitamin contents, and s wider variations in diastatic activity. T usual range of protein content was fr 5½ to 7 per cent., the Pharmacopœ minimum being 4·5 per cent., wh is considered to be low. Omitting samp fortified with extra vitamin, the highest content (158 i.u. per 100 gm.) was 2½ tin the lowest (62 i.u.). The enzyme cont of the samples, as measured by the diasta activity, also varied widely. In general lower diastatic power was accompanied a lower protein and vitamin content. Wh cod liver oil is ærated at a high temperat for a time insufficient to destroy much the vitamin A, organic peroxides a known to be formed in the oil whi render the remaining vitamin A unstab so that it disappears much more rapic than usual. Malt enzymes may produ peroxides in oil which act in a simi manner. As the diastatic power decrea there is a drop in the average prote content from 6 to about 3, whilst t samples with practically no diasta activity contained little more than 1 p cent. of protein. Eight of the sampl contained significantly less than the Pha macopœial minimum of protein, aft making allowance for the content of o

Although it is possible to make a ma extract with a high protein content a low diastatic power, the findings indica that in practice a low-activity malt w usually be found to have a low protein a vitamin B value. Most manufacturers malt and oil appear to favour a high prote content, and this procedure avoids t serious loss of food value that would ha occurred if low-diastatic-power malt e tracts had been favoured. If it is desired render the vitamin A in malt and oil mo stable, this might be achieved by replacir the oil by a stable vitamin concentrat

In view of the wide variations observed

vitamin B_1 content of different samples emed desirable to relate the findings ctual B_1 requirements of normal persons. ith some diffidence" the authors suggest if a malt extract contains 125 to 250 of vitamin B_1 per 100 gm. it will, when n in reasonable doses, provide at least of the daily requirement of this min, thus making good any deficiencies itamin B_1 intake likely to be encoun- d in this country. Experiments on different foodstuffs have shown that their vitamin B_1 content gradually diminishes on standing. Storage experiments on malt extracts kept at different temperatures showed that their vitamin B_1 content may fall appreciably during normal storage periods, losses as high as 25 per cent. being observed in seven months' storage at room temperature. The evidence suggests that fortified malt extracts do not normally undergo any significant loss of vitamin B.

Vitamins from Rose Hips

By Frank Wokes, E. H. Johnson, Jeannette Duncan, Joan G. Organ and F. C. Jacoby

a previous communication by the hors, evidence was provided of the ability of vitamin C in rose-hip syrup other fruit products, and it was shown the rate of destruction of the vitamin affected by the storage temperature, osure to air, and water content of the paration. Further evidence is now provi- of the gradual loss of the vitamin in t syrups, and a method is described of rcoming this difficulty by the prepara- of concentrated dried rose-hip extracts, ch form the most stable and potent rce of vitamin C so far encountered. logical and clinical tests have shown se extracts to be also an excellent source vitamin P, an essential food factor arently concerned with the permeability he capillaries, and therefore responsible curing some of the symptoms previously ributed to vitamin-C deficiency (for mple, capillary hæmorrhages).

he vitamin C was estimated both ally and potentiometrically. Data are en showing that the vitamin is unstable fruit syrups, the rate of loss being inished as the temperature is lowered. ring prolonged storage at 37° C. the amin C content, as determined by the al dye titration, may cease to fall, and n begin to rise slightly. This was found be due to the production of substances t reduce the dye under the given erimental conditions, but are not amin C. During the last two years the hors have made a prolonged study of s apparent vitamin C, and they find it occur in a variety of foods and food ducts as well as in fruit syrups. Failure allow for its presence can cause mis- ding results to be obtained both for amin C content and for the stability of amin C in different preparations. Appa- t vitamin C may gradually be formed room temperature or even in the refri- gerator, so that even when storage experi- ments are carried out at low temperatures the results may be misleading if allowance is not made for its presence. The observa- tion that the stability of vitamin C is increased by decreasing the water content suggested the production of a dried rose-hip extract. The product obtained after re- moval of the water, at as low a temperature and as rapidly as possible in order to avoid destruction of the vitamin, was a golden- brown powder containing only about 1 per cent. of moisture, in which the active principles had been concentrated without any significant loss of vitamin C. In five consecutive batches of such dried extracts, the vitamin C content ranged from 1000 to 1400, and averaged 1250 mgm. per 100 gm. After 248 days at 37° C. the loss was about 15 per cent. Prolonged dietary experiments on man have shown that grapes, oranges, lemons, plums, prunes, rose hips and other fruits contain vitamin P, a factor distinct from vitamin C. In fruits the two vitamins seem to be closely associated, so that a fruit which is a good source of vitamin C may be expected to contain a fair amount of vitamin P. Vege- tables, on the other hand, appear to be poor sources of vitamin P. Bacharach and Coates determined by their method the vitamin P content of one of the dried rose-hip extracts, and obtained the remark- ably high figure of 520 G.L. units per gm., against 3 units per gm. for national rose-hip syrup and 95 units per gm. for recrystallised hesperidin. Thus the dried extract contained five times as much vitamin P as the glycoside which at one time it was thought might turn out to be the actual vitamin. Finally, the authors confirm the finding of a Swedish investigator that rose hips contain considerable amounts of carotene. (From the Ovaltine research lab- oratories.)

The Assay of Methylene Blue

By G. J. W. Ferrey

The author reviews methods for the assay of methylene blue based on direct titration with excess of N/10 iodine, followed by dilution and back-titration with N/10 sodium thiosulphate; precipitation of the iodine compound in presence of sodium acetate or acetic acid; and titration of weak solutions of methylene blue with N/100 picric acid, shaking out the methylene blue picrate as it is formed by means of chloroform. In preliminary tests he found that the concentration of potassium iodide necessary to produce complete precipitation of the methylene blue was far too high to make use of iodate titration for the determination of the excess of iodide; on the other hand, the use of potassium dichromate as a precipitant appeared to offer a convenient means of assay. Volumetric and gravimetric methods have been worked out and are described in detail. The volumetric method is rapid, but gravimetric modification has certain adv tages. The chief of these is that it is ba on the use of a stable standard soluti which can be prepared by weighing out requisite quantity of potassium dichrom and dissolving in the appropriate quant of water, no further standardisation be necessary. The method is as rapid as official process, if allowance is made for fact that titanous chloride solutions requ constant re-standardisation, and no el orate precautions against re-oxidation necessary. The composition of the p cipitate is not dependent on the relati proportions of the reacting substanc The volumetric method cannot be used w sugar-coated tablets containing hexami and methylene blue. (From the analyti laboratory of James Woolley, Sons Co., Ltd.)

The Mechanism of the Disinfection of Bacteria by Water-soluble Bactericides. T Influence of Concentration of Bactericide

By David P. Evans and Arthur G. Fishburn

After reviewing existing hypotheses as to the action of phenol on a bacterium, the authors put forward their own suggestion that the mechanism of disinfection by water-soluble bactericides comprises adsorption of the bactericide on the surface of the organism, followed by chemical reaction between the adsorbed disinfectant and the active protein in the surface of the bacterium, resulting in coagulation of the protein. When sufficient has been precipitated the organism is unable to carry out the process of reproduction and is considered dead. This picture is put to the test by combining the results of bacteriological tests with those of physicochemical experiment. The adsorption stage is looked upon as taking place fairly rapidly, so that, almost immediately after adding, say, phenol to a suspension of bacteria, each organism has adsorbed its maximum amount of bactericide corresponding to the concentration of phenol employed. The chemical reaction, however, is governed by energy considerations and takes place only when each protein molecule plus its requisite number of adsorbed phenol molecules receives the necessary activation energy. To produce death it seems probable that several active centres must react and cause precipitation of protein. Since all monohydroxy-phenols are bactericides it is reasonable to assume that the chemical reaction with protein involves the -C group and that substituent groups li methyl and chlorine modify the reactivi of the parent compound (phenol) in mu the same way as occurs in ordinary chemic reactions. If this is so then the statistic requirements for the killing of a given ty of organism should be the same for phen cresols, xylenols, and chlorocresols. As rough approximation it has been assum that the adsorption on bacteria is simil to that on charcoal. The results of expe ments show that for any given concentr tion of bactericide (below 1 per cent.) t order of increasing weights adsorbed p gm. of charcoal is phenol $< o$-cres $= m$-cresol $< 3{\cdot}5$ xylenol $= 2{\cdot}6$ xylen $< p$-cresol $< 3{\cdot}4$ xylenol $< 2{\cdot}4$ xylen $<$ chlorocresol. This is roughly the ord of increasing bactericidal power as me sured by the Rideal-Walker test. If t molecular amounts of the various pheno adsorbed on 1 gm. of charcoal are plotte against the original concentration of disi fectant solution in gm. per litre, the curv for phenol, o- and m-cresol, and 2 : 6- an 3 : 5-xylenols are coincident, whilst t corresponding curves for p- cresol, 3 : 4 xylenol, 2 : 4-xylenol, and chlorocresol ris in that order. (From the Cardiff Tech nical College pharmaceutical chemistr laboratory).

(To be concluded)

LORD TRENT ON PRIVATE ENTERPRISE

Rt. Hon. Lord Trent (chairman) in course of his statement to shareholders he ordinary general meeting of Boots Drug Co., Ltd., on July 21, said:

ESCRIPTIONS.— . . . It is clear that company, together with its competi- will be quite capable of coping with extension of the medical services which Government may decide upon.

is, in my view, essential that the iple chemists, and I here include the y co-operative pharmacies, which repre- such an important and progressive on of the industry, should be given the rtunity to place their views before the ernment, if the public is to be given best and most efficient service. There ld be no need to set up any new organ- on or machinery of control to meet the ensing and pharmaceutical require- ts of the National Health Service now ntemplation.

Patent System

come now to another question in which Government is concerned. We are y supplying many vital and important s which, prior to the war, were a mono- of the Germans, thanks to a patent em in this country which afforded them ction even though they did not manu- ure here. Too much importance cannot ttached to the value of research, and n the work of the researchers produces ts they are entitled to the due reward heir labours. It should be realised, ever, that so long as research, experi- t, and inventive genius are encouraged financed by a reasonable system of lties, it is contrary to public interest for State to permit under its system of nts any monopoly of manufacture.

he licence to manufacture should be ted to any firm that can provide satis- ory assurances of its competence to do If international arrangements on these could be adopted, there would be a exchange of ideas and a wider avail- ty of products, instead of an unneces- and often uneconomical dependence n others.

opolies and Public Control

he mention of monopoly brings me to ven wider question. We have heard a deal lately from politicians who cate Government control of industry t the alleged shortcomings of the large ate enterprises. This criticism contrasts strangely with the urgent representations that were made to British firms before the war to organise on a larger scale and work in closer association with one another in order to compete effectively with the foreigner. When politicians venture into theories about industry they are on unfamiliar ground, and their conclusions often bear little relation to the practical facts. Certainly the assumption that the State could produce better results for the community than private enterprise is far from being borne out by the evidence that is available to us. I do not think that anybody can seriously suggest that public enterprise has shown evidence of any capacity to replace the existing system from which the nation has derived ever-increasing advantages and a very definite improvement in the amenities available to the masses of the population.

Bureaucratic Interference

I have digressed on this important topic because it vitally affects the future of our community and it is, in my view, imperative that a halt should be called to the wild talk that is indulged in by doctrinaires on such matters. We must all recognise today that it is the duty of the State to protect the community against abuses, whether they are committed by private enterprise or by Government departments. But in a freedom-loving democracy such as ours it is clear that the less State regulation we have the better, and strict limits must be placed on the intervention of bureaucracy in business and private affairs."

"C. & D." Quiz, No. 7.—The answers to the questions given on p. 111 are:—1. An exudation from the leaves of a Brazilian palm, *Copernicia cerifera*. 2. Calabar bean, from *Physostigma venenosum*. 3. Claudius Galen (A.D. 131–200). 4. U.S.P. I (1820). 5. Dried leaves of *Chimaphila umbellata*. 6. Liquor boracis co., B.P.C. 7. Letters Patent for pearl-coating process granted to A. H. Cox of Brighton in 1854. 8. John Steedman (certificate No. 153), by Steedman Street, Southwark. 9. Thomas Field Savory. 10. William Allen, F.R.S.

Closed on Saturdays.—Advertisers and subscribers are reminded that owing to war conditions the Head Office of The Chemist and Druggist, 28 Essex Street, London, W.C.2, is closed on Saturdays until further notice. Urgent instructions relating to advertising and subscriptions should be sent to the *C. & D.*, 17 Argyle Street, Bath, Somerset.

TRADE REPORT

Spot quotations for pharmaceutical chemicals, crude drugs and essential oils repres the prices for wholesale quantities of standard quality. C.i.f. quotations do not inclu marine war risk insurance and other abnormal charges payable in the present emerger

28 Essex Street, W.C.2, July 28

CONDITIONS in the London drug and chemical markets show little change from those recorded in our last report. While there are no regular holidays this year, some principals are taking advantage of the usual seasonal lull in business to obtain a few days' break from work, or, as one merchant expressed it, "to escape for a time from inquiries and controls." No important price fluctuations have occurred, the only changes being adjustments of a minor character. In PHARMACEUTICAL CHEMICALS, business has again been quiet, with no single item providing a topic for comment.

Crude Drugs

Business in this section has been more or less confined to the filling of small routine orders for goods for immediate consumption. A firm tone prevails throughout, with most prices at the levels recorded last week. Cape ALOES is in fairly good demand, principally from manufacturers of aloin. As noted last week, BALSAM TOLU is dearer and difficult to find. Business in BENZOIN is confined to sales of odd parcels for approved purposes. CASCARA SAGRADA continues in keen inquiry, but no supplies are available to meet the demand. Exceedingly quiet conditions are ruling for ERGOT, prices of which are without quotable change. GUM ACACIA is steady at previously-quoted rates. Supplies of IPECACUANHA are difficult to locate, and shipment offers are almost unobtainable. MENTHOL is less active, with no further advance in price. Requests for RHUBARB are maintained, but price and supply positions are unchanged. SEEDS are particularly quiet but no further decline in prices has occurred. As noted last week (p. 100) returns of previous imports of SENNA are required, with a view to granting import licences. WAXES are firm.

Essential Oils

In connexion with the essential oils scheme (see *C. & D.*, May 29, p. 557) an announcement has been issued by Allocations Control that the Ministry of Food has decided that where, during the datum period, a user purchased on c.i.f. terms direct from an importer he may, if he so desires; continue to do so. The Ministry has therefore, in collaboration with the Advisory Committee, approved the following alterati in clause 8, paragraph 3, of the sche (Procedure for Regulating the Imp tation and Distribution of Essential O issued on May 18:—

> "If users imported any oils and/or p chased on c.i.f. terms directly from an i porter during the datum period, they m if they so desire, nominate themselves those oils to the extent only of the respect proportions which their purchases made those terms during the datum period bear their total purchases on all terms during datum period. Each variety of oil should dealt with separately."

Users who desire to nominate themsel in accordance with this revision m ascertain through their datum-period su pliers the quantity of each variety of for which the suppliers were the actu importers. The users must then info Allocations Control of the total quant of each oil purchased on c.i.f. terms from importer and/or imported during the datu period, also of their total quantity of ea oil purchased on all terms during the datu period, in order that the proportion which they are entitled to nominate the selves may be assessed. This informati should be furnished to Allocations Cont within fourteen days of July 23, and m be certified by users' auditors. The Minist of Food announces that there will be change in the existing prices of refined c and imported edible animal fats allocat to primary wholesalers and large tra users during the eight-week period July to September 18.

Pharmaceutical Chemicals

ATROPINE.—Makers quote the follow prices per oz.: ALKALOID, 35s.; 4 oz., 34s. 6 25 oz., 34s.; SULPHATE, 28s.; 4 oz., 27 6 25 oz., 27s.; METHYL BROMIDE and METH NITRATE, 65s.

BARIUM SULPHATE (*x*-RAY).—Makers qu quantities of 28 lb.–1 cwt. as follows (contain in brackets): 1s. 5½d. (1-lb.); 1s. 4d. (4-lb 1s. 3d. (7-lb.); 1s. 2½d. (14-lb.); 1s. 2d. (28-lb

BISMUTH CO. (PULV.), N.F.—Makers' pri per lb. for lots of 28 lb.–1 cwt. are as follo (containers in brackets): 2s. 3½d. (1-lb.); 2s. (4-lb.); 2s. 1d. (7-lb.); 2s. (28-lb.). Terms 1 one month.

BORAX.—Makers' prices per ton are as follo Granulated B.P., £39 10s.; crystals, £40 10 powder, £41. Packed in one-cwt. bags, deliver

age paid in Great Britain, in one-ton lots ards. Commercial qualities, £8 per ton less.

RUCINE.—Prices per oz., in quantities of er 25 oz., are as follows: ALKALOID, 1s. 4½d.; RATE and SULPHATE, 1s. 3½d.

ALCIUM GLUCONATE.—Makers' prices per lb. unchanged: 14 lb., 3s. 7d.; 28 lb., 3s. 4d.; b., 3s. 3d.; 1 cwt., 3s. 1d.

DEINE.—Makers' prices per oz. for small tities are as follows: ALKALOID, ½ oz., 3d.; 1 oz., 45s. 9d.; 2 oz., 44s. 3d.; 3 oz., 6d.; 4 oz., 43s. 3d. HYDROCHLORIDE, ½ oz., ; 1 oz., 39s. 6d.; 2 oz., 38s.; 3 oz., 37s. 3d.; ., 37s. PHOSPHATE, ½ oz., 37s. 9d.; 1 oz., 3d.; 2 oz., 33s. 9d.; 3 oz., 33s.; 4 oz., 9d.

REAM OF TARTAR.—British makers' prices steady at 287s. per cwt., less 2½ per cent. ount.

IAMORPHINE.—Small quantities are quoted oz. as follows: ALKALOID, ½ oz., 54s.; 1 oz., 6d.; 2 oz., 50s.; 3 oz., 49s. 3d.; 4 oz., 49s. DROCHLORIDE, ½ oz., 49s.; 1 oz., 46s. 6d.; ., 45s.; 3 oz., 44s. 3d.; 4 oz., 44s.

THYLMORPHINE.—Makers' scale of prices per for small lots is as follows: ALKALOID, ½ oz., ; 1 oz., 48s. 6d.; 2 oz., 47s.; 3 oz., 46s. 3d.; ., 46s. HYDROCHLORIDE, ½ oz., 43s.; 1 oz., 6d.; 2 oz., 39s.; 3 oz., 38s. 3d.; 4 oz, 38s.

ALLIC ACID.—In restricted supply at ap- imately 8s. to 8s. 3d. per lb.

LYCERIN.—Prices for small quantities are ollows: ·56-lb. tin, 99s.; 14-lb. tin, 105s. cwt., subject to 2½ per cent. discount, nty-eight days.

AGNESIUM CARBONATE, LIGHT.—Prices per for the home market are as follows (con- ers in brackets): 1s. 2½d. (1-lb.); 1s. 1d. .); 1s. (7-lb.); 11½d. (14-lb.); 11d. (28-lb.).

AGNESIUM CARBONATE, HEAVY.—Makers te the following prices per lb. for the home e (containers in brackets): 1s. 6½d. (1-lb.); 5d. (4-lb.); 1s. 4d. (7-lb.); 1s. 3½d. (14-lb.); 3d. (28-lb.).

HENOLPHTHALEIN.—Makers quote as fol- s: Less than 7 lb., 4s. 6d. per lb.; 7 lb., 5d.; 14 lb., 4s. 4d.; 28 lb., 4s. 3d.; 1 cwt., 2d.

ANTONIN.—Home-trade prices are as follows: kilos and over, £62; not less than 5 kilos, ; 2–4 kilos, £64; 1 kilo, £65; 500 grams, ; 250 grams, £67; 100 grams, £68; less n 100 grams, £69 per kilo. Carriage paid in ted Kingdom.

ODIUM SALICYLATE.—Makers' prices per lb., ots of 28 lb.–1 cwt., are as follows (con- ers in brackets): 2s. 8d. (28-lb.); 2s. 8½d. lb.); 2s. 9d. (7-lb.); 2s. 10d. (4-lb.); 11½d. (1-lb.).

ULPHANILAMIDE.—Price would be about . 6d. per lb.

ANILLIN.—Makers' prices are steady, as ows: Ex clove oil or guaiacol, 5 cwt., . 6d. per lb.; 1 cwt., 22s. 9d.; 56 lb., 23s., than 56 lb., 23s. 3d.

Crude Drugs

AGAR.—Little business passing; Kobe No. 1 material is available for bacteriological use at the prices mentioned last week (p. 101).

ALOES.—A good demand has been received for Cape for manufacturing purposes, but no offers can be obtained at present; spot, 72s. 6d. to 75s. per cwt. Curaçao continues to be offered on spot at 475s. per cwt., but request is small.

BALSAMS.—As noted last week, *Tolu* is difficult to find and rather dearer at 13s. 6d. per lb. *Canada* is unchanged at 10s. 3d., and *Peru* at 8s. 6d. Some inquiry persists for *Copaiba*, but no supplies are available.

BELLADONNA.—Spot price of Indian leaf remains at from 5s. to 5s. 3d. per lb., according to test. Root, also according to test, is priced at from 4s. 6d. to 4s. 9d. per lb.

BENZOIN.—A few odd cases are changing hands for the manufacture of B.P. preparations. Spot, fair-quality Sumatra block, £22 10s. per cwt. Free "almonds," spot, £32, ex store.

CAMPHOR.—As noted last week (p. 101), supplies of both synthetic and natural imported by the Ministry of Supply are now available for distribution to approved users. Re-sale prices for quantities under 7 lb. are not yet available but will be published later.

CARDAMOMS.—Spot prices are without quotable change on the week; business is practically at a standstill. Spot, Aleppy seed, 6s. 6d. per lb.; Aleppy greens, 5s. 6d.; split seed, 5s. 6d.

CASCARA SAGRADA.—Considerable inquiry is again noted, but there are no offers from origin.

CLOVES.—Spot price of Zanzibar is unchanged at 1s. 5½d. per lb.; second grade, to arrive, 10d. per lb., c.i.f., sellers.

DIGITALIS LEAVES.—Portuguese leaves can be had on spot at 135s. per cwt.; English-grown leaves, 2s. 6d. per lb.

DRAGON'S BLOOD.—Dull Zanzibar drop is offered on spot at £21 per cwt.; no other varieties are available.

ERGOT.—Quiet conditions continue, with quotations unchanged. Portuguese, spot, 4s. 9d. to 5s. 3d. per lb. according to condition.

GUM ACACIA.—Steady, with Kordofan cleaned sorts quoted on spot at 95s. per cwt. Bleached, for shipment, 140s., c.i.f. Some cleaned Talha is offered at 55s., landed terms.

IPECACUANHA.—In good demand, with nothing much remaining on spot. Matto Grosso would be worth 22s. 6d. per lb., and Minas, B.P., 18s. 6d. to 18s. 9d., if available; under B.P. standard, 17s. to 17s. 6d. per lb., according to test. Shipment offers are stated to be almost unobtainable. Current prices of EXT. IPECAC. LIQ. are as follows: Winchesters, B.P., 1932, under three, 30s. 6d. per lb.; three and under six, 30s.; six and under twelve, 29s. 6d.; twelve and over, 29s. B.P., 1914, under three, 28s. 6d.; three and under six, 28s.; six and under twelve, 27s. 6d.; twelve and over, 27s. per lb.; all prices quoted are on a net basis.

LIQUORICE ROOT.—Approved buyers may obtain Russian root at 75s. per cwt. Anatolian

natural, spot, 87s. 6d. to 92s. 6d. per cwt., according to holder.

MENTHOL.—Activity has diminished considerably, but there appears to be nothing available under 110s. per lb., with some holders stated to be asking 115s.

MERCURY.—Prices are controlled at £68 10s. to £69 15s. per bottle for quantities of over 7 lb.

MYRRH.—Good-quality Aden sorts, spot, £20 per cwt.; pickings, £10

NUX VOMICA. — Dealers would require 42s. 6d. per cwt. for washed and garbled Cochin; for Cocanada, 37s. 6d. would be the current value.

ORANGE PEEL.—Bitter quarters may be had on spot at 3s. 3d. per lb.; good-quality thin-cut, spot, 4s. 3d.; darkish, 4s.

PAPAIN.—Spot, nominal at 17s. 6d. per lb.

PEPPERS.—Maximum prices of whole, not picked over or cleaned, on sale to processors, are 1s. 4d. per lb. for white, and 1s. per lb. for black, both duty-paid.

PIMENTO.—On the spot, 1s. 10d. per lb., sellers; shipment, unquoted.

QUILLAIA BARK.—Crushed or cut bark now offered on spot at 100s. per cwt.; natural, afloat, 75s., c.i.f.

RHUBARB.—Demand rather better, but prices are unchanged. Rough-round, spot, 7s. 9d. to 8s. per lb.; flat high-dried, rough-coat, 8s. to 8s. 3d.; slightly wormy, a few pence less. Shensi pickings, 10s.

SAPONIN.—Spot, steady at 7s. 6d. per lb., ex store.

SEEDS.—Quiet conditions continue for imported seeds, with last week's quotation still ruling. CORIANDER.—Indian offered at 92s. to 92s. 6d. per cwt. Cumin.—Maltese, spot, 122s. 6d.; Indian, 112s. 6d. Dill.—Quoted at 160s. ex wharf Glasgow; 170s., ex wharf London. FENNEL.—Nominal at 90s. FENUGREEK.—May be had at 82s. 6d. MUSTARD.—Controlled prices are unchanged.

SENNA.—As noted last week (p. 100) returns are requested with a view to the issue of import licences. In the meantime no movements have occurred in prices.

TRAGACANTH.—Demand fair, prices unchanged. Prices of the medium grades are as follows: No. 1, white, £130 per cwt.; No. 2, white, £115; No. 3, white, £102; No. 4, white, £83; pale leaf, £73; amber leaf, £65; dark amber, £50; brown leaf, £45; red-and-brown leaf, £38; red leaf, from £32; light hoggy, from £17; woody and dark hoggy, £12.

TURMERIC.—Little business passing. Sound-quality Madras finger may be obtained on spot at 60s. per cwt.; wormy, half a crown less.

VALERIAN ROOT.—Indian root is quoted on spot at 95s. per cwt., ex store.

WAXES.—BEES'.—Supplies through the Association of Merchant Distributors of Beeswax only. CARNAUBA.—Market quite firm. Fatty grey and chalky grey, spot, both 430s.; Primeira, dearer at 530s. per cwt.

Essential and Expressed Oi

ANISE (STAR).—Request continues but s plies appear to be confined to a few odd l Price, if available, would be in the regio 70s. per lb.

BAY.—Any available small supplies w be worth approximately 12s. 6d. per lb. on s

BOIS DE ROSE.—Spot price of any avail small lots would be in the region of 47s. pe

CINNAMON LEAF.—May be had on spot around 15s. 6d. per lb.

CITRONELLA.—In good request, with J oil at about 25s. per lb., and Ceylon at f 21s. to 22s. per lb.

CLOVE.—English distillers' prices for I oil are unchanged at about 14s. per lb.; impo oil would be cheaper, according to grade.

CROTON.—Quoted at 9s. 6d. per lb.

EUCALYPTUS.—In limited compass on s at about 5s. 9d. to 6s. 6d. per lb. for 70 to per cent. oil.

GERANIUM.—Small supplies of genuine N African may be obtained at around 85s. to per lb.

GINGER.—English-distilled oil may be at 90s. per lb.

GINGERGRASS.—Small supplies are avail on spot at around 22s. 6d. per lb.

GROUNDNUT.—Refined deodorised, £58 ton; refined hardened deodorised to 40°, £ refined hardened deodorised to 50° to 52°, £ all naked ex works.

LEMONGRASS.—Quoted by dealers at fr 15s. to 16s. per lb., for spot oil.

PALM.—Refined deodorised is officially pri at £55 per ton; refined hardened deodoris £58 per ton, both naked ex works.

PALM KERNEL.—Refined deodorised is o cially quoted at £49 per ton, naked ex wor hardened refined deodorised, £53.

PALMAROSA.—If available on spot, wo cost about 32s. 6d. to 35s. per lb.

PATCHOULI.—Good-quality oil would worth about 75s. per lb. on spot.

PENNYROYAL.—Spot, if available, from ab 40s. to 45s. per lb.

PEPPERMINT.—Supplies are extremely di cult to find. A price of 102s. 6d. per lb. mentioned for Chinese oil.

PETITGRAIN.—In very small supply at ab 25s. per lb.

RAPESEED.—Price of bulk supplies is co trolled at £60 per ton, naked ex works.

ROSEMARY.—The spot price of any availa spot supplies would be in the region of 1 per lb.

SPIKE.—Would fetch about 32s. 6d. per l if available on spot.

THYME.—In short supply. High-grade would be worth around 25s. per lb.

VETIVERT.—Spot, about 95s. per lb.

INSULIN

Price Reduction

A price reduction of 2d. per 100 units on **all** Insulin packings is announced by the British Insulin Manufacturers. It is made possible by close collaboration on manufacturing problems leading to improved methods of production.

This all-round reduction to distributors is to be effective on and after July 31st, when selling prices to the consumer should also be reduced.

CREDIT ON STOCKS

(A)

Stock bought direct—

* Post claims to manufacturers concerned **within 14 days.**

* Give number (in dozens or fraction of a dozen) and batch number of phials of each *type, size* and *strength* in stock at the opening of business on July 31st 1943.

* Do not incorporate correspondence or orders with claims.

(B)

Stock bought from wholesalers—

Post the same details (in respect of each manufacturer's brand) to the wholesaler from whom it was purchased.

NOTE—A considerable amount of clerical work will be involved in handling claims for credit and will fall on depleted wartime staffs. Your co-operation in avoiding correspondence and small claims will therefore be greatly appreciated.

ALLEN & HANBURYS LTD. BOOTS PURE DRUG CO. LTD.
THE BRITISH DRUG HOUSES LTD. BURROUGHS WELLCOME & CO.

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PALESTINE POTASH LTD. for export to
NEAR, MIDDLE and FAR EAST and AUSTRALASIA

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PSYLLIUM SEED
QUILLAIA BARK
SQUILL WHITE
STRAMONIUM LEAVES
VALERIAN ROOT

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JOHN KELLYS (LONDON) LTD.
27 OLD BROAD ST., E.C.2. *KEL. 6186 (4 lines)*
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Pure White
TIN OXIDE
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An Announcement of Importance to Wholesale Druggists and Manufacturing Chemists

PATTINSON'S Regd. Brand
MAGNESIUM TRISILICATE B.P.
This high-grade product conforms to the requirements of the recent Addendum to the British Pharmacopoeia. Write for special bulletin and sample.

Sole Manufacturers:
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SULPHANILAMIDE AND SULPHACETAMIDE

LOCAL AND TOPICAL ANÆSTHETICS

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'GERMOSAN'

CREAM

A non-greasy antiseptic cream containing the active principles of 'Germosan' and the healing agent Allantoin. Valuable against all forms of infection and, in addition to its antiseptic properties, exerts a healing effect on inflamed and damaged tissue. For cuts, abrasions, minor wounds, etc.

In 2 oz. jars.
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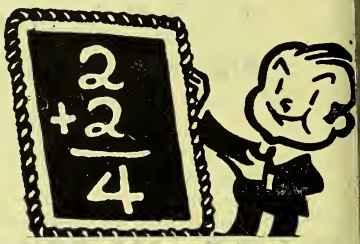
50 Years of Adding



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When times are difficult and food is 'aust
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ese are our Chairman's observa- s on the reaction of Asthmatics to VON and we ask you to identify various expressions or emotions.

nd us a post card with your solution ach us within ten days of publication.

prize of 2 doz. BROVON (value £10) be awarded for the best solution nitted.

vo Chemists share the prize in our merick" competition of June 19:—

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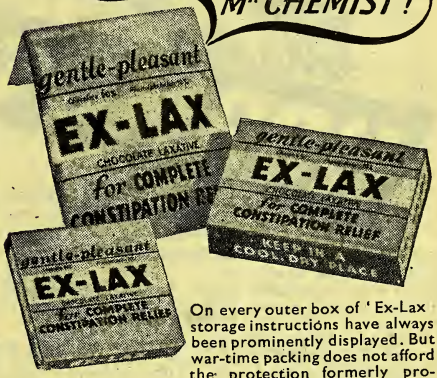
octors are now prescribing BRO- N freely. Every Chemist should keep tock of this remarkably efficient paration for the treatment of Asthma.

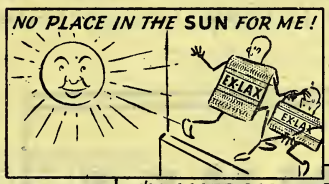
PLEASE BE KIND TO ME Mr. CHEMIST!



On every outer box of 'Ex-Lax' storage instructions have always been prominently displayed. But war-time packing does not afford the protection formerly provided, especially during the summer months. This problem, however can be overcome, if you will kindly remember the hints set out below.

HOW *NOT* TO STORE 'EX-LAX'

NO PLACE IN THE **SUN** *FOR ME!*



(Heat is fatal to chocolate. 'Ex-Lax' should never be placed in the window or in direct sunrays.)

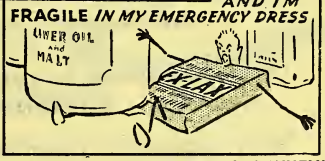
I'M ALLERGIC TO **SMELLS!**

(Keep 'Ex-Lax' away from perfume, soap, and other strong-smelling commodities.)

I CAN'T STAND **DAMP!**

(Don't store 'Ex-Lax' near a damp wall or next to glass where condensation takes place.)

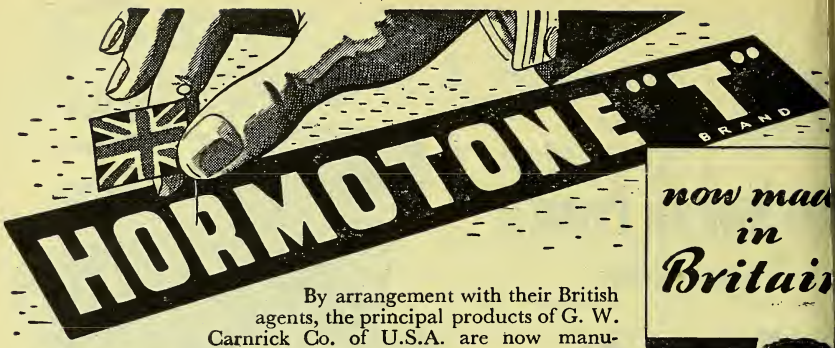
AND I'M **FRAGILE** *IN MY EMERGENCY DRESS*



('Ex-Lax' in its present packing should be handled carefully and kept in container until sold.)

'BAD' STOCK IS WASTE STORE 'EX-LAX' WISELY

P.A.T.A. KEEP 'EX-LAX' COOL AND DRY



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There by-!

COMING TO YOUR LOCAL CINEMA?

There by —!" is unquestionably an outstanding ..yet restrained... advertising film. **From January o October,** this 'BiSoDoL' 5½-minute film is being hown in 672 cinemas (for 3 or 6-day periods) hroughout Gt. Britain to a total audience of **7½ illion people.** Glance through the list below to ee if and when "There by —!" is due in your istrict. If it is, may we suggest that it would be vorth while making a "tie-up" display of 'BiSoDoL' during and following the local film-showing. This film campaign is producing additional sales of 'BiSoDoL'—displays, plus the film, will undoubtedly result in still greater increases. 'BiSoDoL' is now firmly established as an effective and reliable antacid-digestant which can be recommended with complete confidence. May we have your co-operation in our present promotional activities?

OME OF THE 672 CINEMAS SHOWING 'THERE BY-!'...

26th JULY:

NGHAM, Ladywood - - (Regent)
DDERTON, Oldham - - (Lyric)
ORTH - - - - - - (Rio)
DUTH - - - - - - (Forum)
WORTH, Mdx. - - - - (Rex)
NSTER - - - - - - (Plaza)
OLD, Notts - - - - - (Palace)
URN - - - - - - - (Elite)
DON, Tott. Ct. Rd., W.I. (Carlton)
Tottenham, N.17. (Corner Cin.)
T. HARBORO' - - - (Oriental)
LESBRO' - - - - - (Scala)
NTSORREL - - - - - (Rock)
TON ABBOT - - - (Alexandra)
THALLERTON (Cin. de L. & Central)
HAM - - - - (Cosy & Imperial)
Shaw - - - - (Pavilion)
ICROFT - - - - - (Palladium)
ORD, H.B'ton - - - (Empire)
FIELD - - - - (Norfolk P. P.)
- - - - (Darnall Cinema)
TINS'Y - - - (P. Palace)
AM - - - - - - - (Regent)
TH BANK, Yorks (Majestic & Empire)
ELDS - - - - (Westoe P. H.)
NYMOOR, T'hope - - (Tivoli)
ETHOUSE, Yks. - (Picture House)
FORD - - - - - - (Palace)
RCROFT, Yks. - - - (Cinema)
LINGTON - (Empress & Empire)
GATE - - - - - (Empire)
HERNSEA - - - - (Kinema)
IBWELL - - - (Empire Palace)

2nd AUGUST:

LE - - - - - - (Cinema)
- - - - - (New Picture House)
GOW, Bridgeton - (Royal P. P.)
TONBURY - - (The Cinema)
- - - - - - - (Majestic)
NGTON-o-T - - - (P. of Wales)
URN - - - - - - (Pavilion)
T. RASEN - - - (Town Hall C.)
T. WEIGHTON - - (Central H.)
HAM - - - - (T. Hall P'drome)
OMER N'TON - - - (Palladium)
MIRFIELD - - - - - - (Regent)
NEWSHAM - - - - - - (Plaza)
PORTSLADE - - - - - (Pavilion)
PRESCOT, Lancs. - - - - (Palace)
PRESTON, Lancs. - - - - (Cosy)
SALFORD, Pen'ton - - - (Empress)
SOUTH BANK, Yorks. - (Hippodrome)
SPILSBY - - - - - - (Franklin)
TOTTINGTON, Bury - - - (Palace)
WELLS, SOM. - - - - - (Palace)
WHALLEY - - - (Co-op. Kinema)

W/c 9th AUGUST:

AYLESBURY - - - - - (Pavilion)
BECCLES - - - - - - (Regal)
BIRMINGHAM, Perry Barr - - (Clifton)
" Great Barr - - (Beacon)
BURNHAM-o-SEA - - - - (Ritz)

"Tie up" DISPLAYS will INCREASE *your* sales

FRAMLINGHAM - - - - (Regal)
GRIMSBY - - - - - - (Rialto)
ILKLEY - - - - - - (Grove)
KNARESBORO' - - - - - (Cinema)
LYE, Worcs. - - - - - (Clifton)
MOORTHORPE - - - - (Empire)
N'CASTLE-o-TYNE, Walker (Vaudeville)
PATRICROFT - - - - (Majestic)
PRESTON - - - - - (Princes)
SALFORD - - - - (Arcadia & Rex)
SHEPSHED - - - - (Palace P. H.)
S. KIRKBY - - - - - (Cinema)
TAUNTON - - - - - (Gaiety)
WARMINSTER - - - - - (Regal)
WATCHET - - - - (Conquest)
WELLINGTON, Salop. - - (Clifton)
W. HARTLEPOOL - - - (Regal)
WHITLEY BAY - - (Picture House)
WHITTLE-LE-WOODS - - (Palace)
WOLVERHAMPTON (Clifton & Th. Royal)

W/c 16th AUGUST:

ECCLESTON, Chorley - - (Rex)
HIGHBRIDGE, Som. - - - (Regent)
HURSTMONCEUX - - - (Castle P.)
LEOMINSTER - - - - (Clifton)
MANCHESTER, W'field - - (Mayfair)
" Ardwick - (Roy. P'drome)
MIDDLEHAM - - - (Picture House)
MIDDLESBOROUGH - - (Th. Royal)
MIDHURST, Sx. - - - (Electric)
NELSON, Lancs. - - - - (Regent)
N'CASTLE-o-TYNE, Scotswood (Regent)
NEWHAVEN - - - (Cinema de L.)
PETWORTH, Sx. - - - - (Regal)
PLATT BRIDGE - - - (Miners Hall)
PRESTON - - - - (Picturedrome)
RADSTOCK - - - - - (Palace)
SALFORD - - - - - (Princes)
SHIREMOOR - - - - - (Palace)
SOUTHWICK, Sx. - - (New Kinema)
W. HARTLEPOOL - - - - (Lex)

W/c 23rd AUGUST:

BIRMINGHAM, H. Green - - (Rialto)
BOGNOR - - - - (Picturedrome)
BURY ST. EDMUNDS - - (Central)
CHICHESTER - - - - (Exchange)
LUDLOW - - - - - - (Clifton)
PRESTON, Lancs. (Queens, Guild & Regal)
SOUTHPORT - - - - (Queens)
SUNDERLAND - - (Picture House)
SWINDON - - - - - - (Arcadia)
TARLETON - - - - - (Queens)

W/c 30th AUGUST:

BRIDGWATER - - - (T. Hall Cin.)
HOUNSLOW - - - - - (Alcazar)
HOVE - - - - - - - (Tivoli)
LEWES, Sx. - - - - (Cinema de L.)
SHEPTON MALLET - - - (Regal)
WESTBURY, WILTS. - - - (Vista)
WESTON-SUPER-MARE - - (Central)
UCKFIELD, Sx. - - (Picture House)

★ OWCARDS . . .

A limited number of 'BiSoDol' showcards is available if you have insufficient on hand. If you need display material, please send us a postcard — or ask our Representatives.

BiSoDoL (REGD.)

Sole Distributors:
KOLYNOS (Sales) LTD., 12, CHENIES ST., LONDON, W.C.1.

Ration YOUR STOCKS OF

NEURO PHOSPHATE
(ESKAY BRAND)

Owing to various shortages and increased prescribing, the demand for Neuro Phosphates far exceeds the supply and we have been obliged to ration all customers, both Wholesalers and Retailers.

We express our regret for unavoidable inconvenience occasioned by short supplies, and would ask Retailers to co-operate with us by reserving their stocks to meet prescriptions.

The Retail Price is **4/6** *per 8-ounce Bottle*
INCLUSIVE OF PURCHASE TAX

Winchester Quarts are no longer available

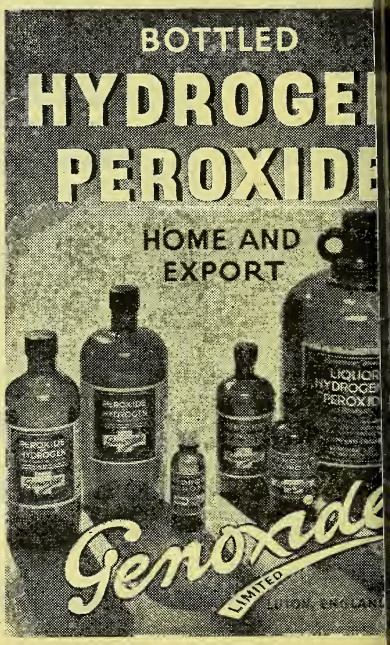
MENLEY & JAMES LTD., 123 COLDHARBOUR LANE, LONDON, S.

LEXIL..
THE EASY FRUIT PRESERVER

No caps, clips or rings. Just pour it on and leave until set—that's all!

RETAILS AT 2/6
Less 33% Retail
Less additional 12½% wholesale
Wholesale enquiries invited

Sole Manufacturers—
CRODA LIMITED
RAWCLIFFE BRIDGE, GOOLE, YORKS.



CAUSE and Effect

OPTREX TULLE is a new, medicated ing with many important advan- . *The following details are published e information of users and suppliers.*

FULLY MEDICATED

ex Tulle is impregnated with a leum - jelly compound containing m of Peru, and Halibut Liver Oil.

NON-ADHERENT

of damage to new tissue is reduced to nimum; changing of dressings is ess and free from bleeding.

ONVENIENT IN USE

open "mesh" of Optrex Tulle permits rainage of the wound; any discharge s through the Tulle and is absorbed he outer dressing. Changing of ngs can therefore be reduced.

RAPID HEALING

medicated Tulle has a continuous eptic action; whilst the vitamin nt, (50,000 International Units of in A and 2,500 of Vitamin D to each rammes of the compound) encourages g and cicatrisation.

use of these qualities, Optrex is particularly recommended for on any raw surface — including s, septic wounds, and in plastic ery — and has been proved in- able in such cases.

Chas. F. Thackray LTD

Sole distributors for Optrex Tulle

OLD MEDICAL SCHOOL, Park St., Leeds and 252 Regent St., London, W.I.

"If I were a Retail Chemist . .

I would do four things, mainly:—

1. Spare no expense or exertion in making my pharmacy a clean, bright and cheerful establishment for my principal job—the family chemist's business and dispensing of prescriptions.

2. Always display a good range of packed drugs and pharmaceuticals.

3. Show continuously Surgical Dressings, Plasters and Nursery Requisites.

4. Be so proud of my diploma that I would display it prominently and do my utmost to let the local community know that by "personal service" I mean my name over the door is a guarantee of the best and most efficient pharmaceutical service."

Written at Nottingham, July, 1943, by Martin Daniels, Chairman & Managing Director of United Drug Company, Ltd., and addressed to those who believe there will always be an England . . . and a chemist round the corner.

FOR SUMMEI

AMPLE SUPPLIE

NOW, BUT—

1/10½ inc. Tax
Retail 3/6 inc. Tax
15/6 dozen + Pur. Tax 16⅔%
Cost 27/6 dozen + Pur. Tax 16⅔

DOUBLE STRENGTH—

CONTAINS THE EQUIVALENT OF:

P. Sod. et Pot. Tart	38%
P. Acid Tartaric.	10·5%
P. Sod. Bicarb	20%
P. Mag. Sulph. Exsicc:	15%
Sweetening and Flavouring ad	100%

WAR EMERGENCY—NOW PACKED IN ATTRACTIVE GLASS JARS

HOUGH, HOSEASON & CO. LTD., MANUFACTURING CHEMISTS **PENDLETON, MANCHESTI**

JUST A LITTLE ON THE TONGUE WASHED DOWN WITH WATER

Needs no preparation, no mixing, no brewing, no bother.

DR. GILLEY'S HERBAL LAXATIVE

The intestinal cleanser and system purifier

There is a public demand.
Your wholesale house stocks it.
In case of difficulties please send us a postcard.
A few showcards still available.

RETAIL:

1/5, 2/10 and **5/7½**, including tax

GILLEY'S LABORATORIES LTD.
5 New Quebec Street, London, W.1

Sphagnol Ointment

FOR DERMATITIS AND ALL SKIN COMPLAINTS

Why not enjoy the large sales of t wonderful preparation. For o 35 years " SPHAGNOL " Ointm and Soaps have regularly been p scribed by the MEDICAL a NURSING PROFESSIONS. T demand is created by every Sa As used by the BRITISH R CROSS SOCIETY *(Prisoners of W Dept.)*

● See P.A.T.A. *List for Prices & Bonus Ter*
● *Order through your usual Wholesaler*

Sole Manufacturers

PEAT PRODUCTS (SPHAGNOL) **L**
3 CARMALT GARDENS, LONDO S.W.15

CHEMISTS... HERE'S NEWS!

Embex tablets are a favourite with women everywhere as they do remove headaches and quickly take away colds. Attractively packed at a popular price and advertised in the *Daily Mail, Daily Herald, News Chronicle*, etc. They represent a fast selling and good profit making proposition. Send today for a sample and price list. Enclose 1d. Do this now, tomorrow may be too late

C.J. Taylor's

Embex

PREPARED UNDER ANALYTICAL CONTROL

PAIN Relieving TABLETS

• NATIONALLY ADVERTISED!.. ORDER NOW!

UNLIMITED SUPPLIES OF

DIUROMIL AND RALGEX

ARE AGAIN AVAILABLE

Supplies can be obtained at once either from the wholesale houses or direct from

PHARMAX LTD.
Ibex House, Minories, London, E.C.3

THE PROBLEM SOLVED

Perfumery manufacturers will be interested to know that

WYNSOMUL

is primarily devised as a substitute for Alcohol in the manufacture of Perfume

7, 14, 28 and **56** lb. drums

Enquiries from distributors invited

Anglo-Dutch Pharmaceutical Co.
56 Viceroy Close
BIRMINGHAM 5

Give Rheumatism No chance to 'settle'

If attacked by **Rheumatic Pains** don't adopt the defeatist attitude of thinking there's nothing you can do about it! There is MUCH you can do. . . . The famous prescription (a century old) of that famous physician, Sir Benjamin Brodie, will doubtless do for you what it has done for others, bring quick relief from **Rheumatism** and kindred troubles. This wonderful remedy is to be had from your Chemist in the form of **STENHOUSE PILLS,** price **1/8** and **3/4,** including Purchase Tax.

ADVERTISEMENTS

similar to the above are appearing in the "Glasgow Sunday Post and Sunday Mail" and the "Newcastle Sunday Sun." Also on four bus routes in the Glasgow area (each 16 ft. by 2 ft.).

For Next 8 Weeks a Special 13 to the dozen Offer is available through your usual Wholesaler. Remember, **STENHOUSE PILLS** are sold **only by Chemists.**

The Stenhouse Pills Ltd., Guiseley, nr. Leeds

"ZEMS"

HERBAL LICORIC TABLETS

THE BEST MEDICATED TABL FOR COUGHS, COLDS ASTHMA, BRONCHITIS, ETC

Supplies may be obtained from C.F. Wholesale Houses

ZEMS, LTD.
718-724 Seven Sisters Road, London, N.

Prunol continues to increase in public favour. It is in constant demand for children and adults. Supplies are still available for prompt delivery from all wholesale houses.

Prunol sells at 7D & 1/5 (including tax)

PRUNOL PROPRIETARIES LTD
Sales Dept., Northington House
NORTHINGTON STREET, W.C.1

Prunol PASTILLES

75% OF YOUR CUSTOMER NEED SAMONA

The well known Restorativ

This wonderful Medical Restorative BRINGS IMMEDIATE RELIEF IN ALL CASES OF NERVE STRAIN, DEPRESSION, TIRED and LISTLESS APPEARANCE, MENTAL and PHYSICAL EXHAUSTION

SAMONA LTD., Northington House, Northington Street, LONDON, W.C.1

PRICES (*including purchase tax*)
3/5 & 5/7½ (more than double quantit

Optabs

EYE LOTION TABLETS

re still recommended as the Perfect Eye Lotion

Attractive Display Outers are still available while present stocks last. Each outer contains 3 dozen **10d.** Optabs. Price **18/-**, plus tax.
Also larger sizes retailing at 3/4 and 5/6, including tax.

From all CF Wholesalers.

Due to repeated demands we have decided to market

EYE LOTION

Liquid

for those having no immediate access to warm water, or for those preferring a ready-made lotion. Manufactured under the most stringent supervision and hygienic conditions. Eye Lotion Liquid is backed by National Advertising. ORDER NOW from your C.F. Wholesaler or direct, stating your C.F. Wholesaler's name.
Retail 2/3 per 6 oz. bottle.
Cost 16/- per dozen.

EYE CUPS

Optabs Eyecups made of specially processed ophthalmic glass. Fit eye socket perfectly. Retail 10½d. each. Cost 4/9 per dozen. Supplied only through C.F. Wholesalers.

ABS LTD., 24/28 Chapel Street, BRADFORD. ***Telephone:* Bradford 12028 (4 lines)**

MEDICINES in GELATIN CAPSULES

the ROTARY DIE PROCESS

GUARANTEES ACCURACY OF DOSAGE AND PROTECTION OF CONTENTS IN A SOLUBLE, TASTELESS, ODOURLESS GELATIN CAPSULE.
UNDER WAR CONDITIONS THE PRODUCTS OF THIS LATEST IMPROVED ENCAPSULATION METHOD ARE NECESSARILY RESTRICTED, BUT AFTER THE WAR A HOST OF NEW MEDICINES AND UNGUENTS WILL BE AVAILABLE IN THIS MODERN FORM.

AN UNCONDITIONAL GUARANTEE OF COMPLETE ACCURACY OF DOSAGE IS MADE WITH EVERY CAPSULE

GELATIN PRODUCTS LTD SLOUGH, BUCKS

TELEPHONE: SLOUGH 21241-2 TELEGRAMS: GELPRODS SLO

Trouble in the Hair....

WHEN CHILDREN GET THEIR HEADS TOGETHER

Nurses, Educational authorities and all who have to cope with the serious wartime increase in cases of infestation by disease-carrying head and body vermin, find a scientifically sure, speedy remedy in DERBAC SOAP. A special advantage is that DERBAC can be safely and pleasantly employed by those in charge of children in home or billet. From Boots, Timothy Whites & Taylors and most high-class Chemists. Clear instructions are provided with each tablet of DERBAC.

Derbac Soap
THE PERFECT HAIR CLEANSER

Pure Products Ltd., Colwick, nr. Nottingham

MANOIDS
NEVROIDS
URICURE TABLET
OCCASIONAL PILL
THE ACTON PILL & TABLET Co. L
ASH VALE, SURREY.
and all Sundries Houses.

British Made **AMPOULE FILE**
are now available

We are now in a position to manufacture large quantities of Ampoule Files and invite inquiries

DOMINION STEEL CORPORATIO
LTD.
"FLEET" WORKS
QUEEN'S ROAD, SHEFFIELD,

FENNINGS

FAMOUS FOR OVER 80 YEARS

GOOD DEMAND GOOD SUPPLY

NNINGS' FEVER CURER 1/3

Customers are advised to lay in stocks during summer months, whilst it is in good supply.

NNINGS' LITTLE HEALERS

For Coughs, Colds, Bronchitis, etc. **1/3** and **3/-** glass tubes. Also **6/-** Carton of 12 Packets, retailing at **6d.** each.

NNINGS' OINTMENT. Demand Steadily Increasing

For Cuts, Burns, Bruises, Chilblains, and all skin irritations. Price **1/3** per tin.

NNINGS' WHOOPING COUGH POWDERS
NNINGS' WORM POWDERS
NNINGS' STOMACH STRENGTHENERS
} **PRICES 1/3 and 3/-**

NNINGS' RHEUMATIC AND ERYSIPELAS DROPS— 1/3

Please address orders and inquiries to your Wholesaler

N.B.—FENNINGS' COOLING POWDERS (Children's and Adults') are at present in short supply, owing to war conditions, but every endeavour is being made to execute orders

PROPRIETORS: **THE TRUSTEES OF ALFRED FENNINGS (DECEASED)**
COWES, Isle of Wight

THE
T.A.
"

and your
very good "friend"

YESTAMIN

VITAMIN
YEAST TABLETS

THE ENGLISH GRAINS CO., LTD.
BURTON-ON-TRENT

WILSON MEATS LTD. WILSON MEATS LTD.

WILSON MEATS LTD.

91/93 CHARTERHOUSE ST. E.C.1 • 24 SIR THOMAS ST. L'POOL.

"Certified"
PURE EXTRACT OF BEEF.

This Extract is specially suitable for invalids and convalescents. Used as a beverage it is most stimulating and sustaining, and by reason of its purity, very easily digested. It is very suitable for the enrichment of soups, stews, gravies and made-up dishes deficient in meat content. Makes excellent sandwiches and delicious beef-tea.

Packed in
$1\frac{1}{2}$, $2\frac{1}{2}$, $3\frac{1}{2}$ oz.
JARS
$\frac{1}{2}$, 1, 2, 3 & 4 lb.
TINS

Awarded the Certificate of the Royal Institute of Public Health and Hygiene

MISCELLANEOUS OPPORTUNITI

WATER SOLUBLE ESSENCES

Tax 100% extra

Bouquet, lb., **25/–**; **Carnation**, lb., **27/6**; **Chypre**, lb., **20/–**; **Eau de Cologne**, lb., **16/–** **Fougere (Fern)**, lb., **25/–**; **Honeysuckle**, lb., **27/6**; **Jockey Club**, lb., **12/6**; **Jasmin**, lb., **25/–**; **Lavender**, lb., **24/–**; **Lilac**, lb., **22/–**; **Millefleurs**, lb., **25/–**; **Muguet**, lb., **25/–**; **Narcissus**, lb., **20/–**; **Poppy**, lb., **27/6**; **Rose**, lb., **20/–**; **Wallflower**, lb., **25/–**.

Minimum quantity supplied, 4 oz.

Containers, 1 lb., 8 oz. 6d. extra. Under 8 oz. 3d. extra. Carriage Paid. 5% Discount to customers collecting their goods.

HARMAN DIETETIC LABORATORIES, LTD.
102 Cricklewood Broadway, N.W.2 GLAdstone 1084

"Ambresil No. 4"—The Premier Oil-in-Water Wax Emulsifying Agent.
"Ambresil No. 559"—The new Raw Material Base. Produces a cold, cleansing and similar cream, with the addition of water only. Price of each: **15/–** per lb. Substantial reduction for larger quantities. Carriage paid on orders over £3.
ARISTOL-AMBRESILS, LTD., 6 Tower St., Harrogate

Tweezers 16/– doz.; **Finger Stalls** (leather) **4/6** doz.; **Hair Nets 21/–** gr., silk, **31/–** gr.; **Hair Pins 13/–** 1,000; **Grips 12/–** gr.; **Slides 54/–** gr.; **Curlers 21/–** gr.; **Combs 14/6** doz, 6" and 7" assorted; **Dust Combs 4/6** doz.; **Snoods**, silk, **8/6** doz.; **2½" by 1½"**; **Mirrors and Stands 11/6** doz. P.T. inclusive; **Pencil Wallets 33/–** doz. **2½" by 5"** **Assorted Picture Calendars 1944, 30/–** gr.

HARRINGTONS (London Office)
2, Berridge Green, Edgware, Middx. Tel. EDG. 3610.

4-dram Tall Vials, 12/6 gross; 2-dram and 1-dram Vials, 13/6 gross; 1-oz. Screw Cap Jars with Caps, 24/6 gross. Screw-cap Panel Bottles with Bakelite Caps—gross: 2-oz., 27/–; 3-oz., 29/–; 4-oz., 30/6. Dispensing Bottles—gross: 4-oz., 20/–; 3-oz., 18/– Carriage free on orders of £5 and over. Cash with order. **Ansol Bottle Co., 71 Lynwood Drive, Collier Row, Romford, Essex.** Tel.: Romford 3969

WOODEN LIPSTICK CASES

as used by leading manufacturers—beautifully finished—the best and most satisfactory war-time container—unbreakable and cannot wear out. **7/6** per dozen plus 100% purchase tax gross lots. Cash with order or send for sample case.
F. WIDOCKS & CO., Textile Exchange Buildings, St. Pauls Churchyard, LONDON, E.C. 4

"MANHATTONE" Regd. FACE POWDER
In Natural, Rachel, Peach and Suntan **11/3** doz. + TAX
An Attractive 2-oz. Pack
"MANHATTONE" TALC
6-oz. Cartons, nicely perfumed (3-doz. outers) **11/3** doz. + TAX
LAMBSWOOL PUFFS
Extra Quality
Lovely Pastel Shades **12/–** doz. + TAX
LIPSTICK CASES. 11 m.m.
Strong Cellulose Finish **36/–** gross TAX FREE
Carriage Paid on all Orders Value £5 (inc. Tax.)

ROLYAT PERFUMERY CO.
445 Bury New Road, SALFORD, 7

"Clemdol" No. 7. The new Wax Emulsifying produces in the simplest and quickest way an ex fine, brilliant White Haircream, by the addition c only, no oil being required. Price **12/6** per lb. C paid on 7 lb. **"Clemdol" No. 3.** The suprem Emulsifying Agent, by the simple addition of creates a fine, White Vanishing Cream. Price **12s. 6d.** Carriage paid on 7 lb. **"Clemdon" L Cases.** The war-time container, the nearest ap to plastic cases in appearance, finish and dur without doubt the best possible value obtainable These containers WILL sell your refills. Price per **36/–**. Carriage paid. Sample dozen, 3s. 6d. Plea stamped addressed envelope with enquiries:—

M. CLEMENTS (CHEMISTS SUNDRIES,
57–8 Wells Street, Oxford Street,
London W.1.

SMART BOTTLES & JARS

2 oz. to 40 oz., with metal screw caps, also cor Large stocks, prompt delivery. Send stamp for l

M.F. LTD.
4 CAVENDISH PLACE, LONDON, W

Hair-cream Jars, 48/- gross.
4-oz. **Panels, 36/-** gross.
2-oz. **Panels, 30/-** gross.
1-oz. **Vanishing Cream Jars, 30/-** gross.
5 gross Lots of a kind Carr. Paid, C.W.O.
Prompt despatch. Samples, one of each, **1/6.**
E. CHARLTON, KING ST., FARNWORT

SPECTACLE FRAME

We can supply
GOOD QUALITY IMSHELL FRAMES
Various shapes and colours, with reinforced si and mitred joints. Regular deliveries, moderate pri
E. LANDAU, 18 Clarendon Court, Staverton Ro LONDON, N.W.2

We offer at reasonable prices:—
Combs: 6 in., 6½ in. and 7 in., good quality.
Lambswool Powder Puffs.
Tweezers: 3½ in., best quality.
Hair Slides: different patterns.
Hair Grips: high quality.
Prices from
HAETAM, LTD., 13 POLYGON RD., MANCHESTER,

LADDERFIX, will stop runs on stockings New good selling line, **12/–** doz. Retail, 1/9.
INVISIBLE HAIR NETS, 20/– per gross.
SLEEPING NETS ON HEADS, 24/– per gross
SNOODS and TURBANETS, assorted shades **18/–** per doz.
HAIR PINS, boxed in 3,000, 1½ in., **9/–** per 1,000
Ditto, boxed in 2,000, 2 in., **11/3** per 1,000.
Plus 33⅓% purchase tax
HAIR SLIDES, assorted shades, **30/–** per gross.
HAIR CURLERS (3 on a card), **5/9** per doz. cards. Plus 100% purchase tax
Also available, Sanitary Towels, Torch Batteries, etc. Send stamp for list of goods available.

MARLENE PRODUCTS
18 Waltham Avenue, Kingsbury, N.W.9

The CHEMIST AND DRUGGIST SUPPLEMENT

Supplement is in-d in every copy of Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

JULY 31 1943

CLASSIFIED SUPPLEMENT ADVERTISEMENTS

ll classified advertisements must be prepaid—those not accompanied by remittance will e held over pending payment. Advertisements received after FIRST POST WEDNESDAY of week of issue will not be inserted until the following week.

THIS IS THE TARIFF

GENCIES, PATENTS, OODS FOR SALE, ARTNERSHIPS, REMISES TO LET, OR SALE or WANTED
6 for 36 words or less, d. for every additional word.

LEGAL NOTICES, SALE BY AUCTION, TENDERS—AND ALL SPECIALLY SPACED ANNOUNCEMENTS
1/9 per nonpareil line. (12 lines = 1 inch, single column.)

BUSINESSES for DISPOSAL
●
BUSINESSES WANTED
●
SITUATIONS OPEN
7/6 for 40 words or less, 2d. for every additional word.

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XCHANGE COLUMN (for Retailers, etc.)—2d. per word minimum 3/-.

Box Office Numbers 1/- extra.

Postal deliveries are uncertain so send your instructions as early as possible to HE CHEMIST AND DRUGGIST, 17 ARGYLE STREET, BATH, or to London Office, 28 Essex Street, Strand, London, W.C.2

EXCEPTIONAL OFFERS

Genuine Talc
lc Substitute Zinc Stearate
Emulsifying Wax
Spermaceti Stearic Acid
Essential Oils

Bulk Inquiries only

J. J. VIGON & CO.
0 Fenchurch Street, London, E.C.3
Telephone: Mansion House 2034/5

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COLUMBIA HOUSE, ALDWYCH, W.C.2
Telephone: Chancery 6446/7
136 Corporation Street, Birmingham, 4
Telephone: Birmingham Central 1725
5 Leicester Road, Hill Lane, Southampton
Telephone: Southampton 71708
are expert Valuers, and offer their services to the Retail and Wholesale Trades; terms upon application Stocktaking a speciality.
Fire Loss Assessors
Businesses for Sale and Wanted in all parts of the Country. Licensed Employment Agency Enquiries from Employers and Employees.

e EMMET DISTRIBUTING , Ltd., 7 Park Lane, London, 1, have pleasure in announcing t they have acquired the rights distribution, through chemists, **SWEETENING TABLETS,** de by GEETABS, LTD. They refore invite their chemist nds to apply for allocation.

Established firm of repute, manufacturing household commodities, require additional regular supplies in bulk of the following—
FLOOR POLISH
PINE DISINFECTANT
FURNITURE POLISH
RED TILE POLISH
GRATE POLISH
and allied products
The advertisers wish to make it clear that only goods of the finest quality will be considered. Full particulars which will be treated in the strictest confidence,
441/242 London Office of this Paper

OPTICAL TUITION
FOR THE
S.M.C., B.O.A., and N.A.O. DIPLOMA Examinations
Particulars:—
C. A. SCURR, F.S.M.C., F.B.O.A., F.N.A.O., F.I.O., F.C.O., M.P.S.
50 HIGH STREET, BARNET, LONDON, N.

Aluminium and Tin Foil, range of samples, 6d. "Mirabil" Powder for Setting Lotion, Hair Cream, etc., 14/6 per lb. Substantial sample, 1/-. We can offer Gum Tragacanth, Perfume Essences, Colourings, Beeswax Substitute, Stearic Acid, Shaving Cream, Empty Bottles and Jars, Hair Slides, Grips and Curlers, Small Puffs, Lotion Sprays. Send us your inquiries. T. WOOD & SON, Syke Works, Cleckheaton.

GEORGE COHEN, SONS & CO., LTD.
Established 1834
Secondhand Plant and Machinery in Stock. Tanks, Jacketed and Plain Pans, Filter Presses, and everything for Chemical Works. Engines, Boilers, Electric Motors, Generating Sets, Compressors, Pumps, Fans, Blowers, Hydraulic Plant, Steel Joists, Tubes and Fittings. *New Rubber Boots & Gloves, Tarpaulins, Blocks & Tackle, etc.*
Wood Lane, London, W.12, and Stanningley, Nr. Leeds

WANTED
LIQUID SWEETENER or SACCHARINE POWDER. Any quantity.
***Write* 171, SELLS LTD.**
BRETTENHAM HOUSE, STRAND, W.C.2

FOR SALE
SEVERAL CWT. QUILLAIA POWDER
WHAT OFFERS?
SPEEDWELL SERVICES
29 Seaforth Road, Westcliff-on-Sea, Essex

SESQUI—THE IDEAL ALL-PURPOSE WATER-SOFTENER. A good seller. Sells 6d. lb., 1 cwt., 37/6. Carriage paid with free printed bags.
Spermaceti 6/6 lb. White Wax 6/- lb. Sodii Carb. Pea Cryst., 27/6 cwt. (carriage 2/6).
WILLSON'S, 102 CARR HOUSE ROAD, DONCASTER

SHOP FITTING
MYERS OF OLD ST. THE PHARMACY FITTERS
ALL PHARMACY FITTINGS. New and Secondhand
From the single unit—to the complete Pharmacy
Write, 'Phone or call
L. MYERS, 133-135 OLD ST., E.C.1. Phone: CLE 6381

SACCHARINE ENVELOPES
Ungummed, plain, 4/11 per 1,000. Gummed, printed standard wording (100's), 6/6 per 1,000. Special prices for larger quantities.
LEWIS EAST, LTD.
Envelope Makers
84 Romway Road, Leicester

REGULAR SUPPLIES AVAILABL
in
FLOOR AND FURNITURE POLISH
HOUSEHOLD DYES in packets
WASHING BLUE in packets and bott
STARCHING POWDER
FLAVOURING ESSENCES in small bott
SPICES, HERBS, loose and packed.
Enquiries Invited.
CARMEL EXPORTERS & IMPORTERS,
15 Seething Lane, London, E.C.3

SITUATIONS OPEN

7/6 for 40 words or less, 2d. for every additional

Employment of Women (Control of Engage Order 1942
With certain exceptions, women over 18 and un years of age seeking Employment and Employers s to engage such women are now required to do s through the local office of the Ministry of Labo National Service or an approved employment ag

RETAIL (HOME)

ASSISTANT for Pricing Company's Stock I Suit elderly Chemist. Part time consi Apply "A," 440/233, London Office of this Pa

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